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1921/22

# Marquette University

BULLETIN

## COLLEGE OF ARTS AND SCIENCE

SERIES III

VOL. 7

NUMBER 2

FEBRUARY, 1922

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UNIVERSITY OF MICHIGAN



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Milwaukee, Wis.

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1922

## JULY

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | ... | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  | ... | ... | ... | ... | ... |

## AUGUST

| S   | M   | T  | W  | T  | F   | S   |
|-----|-----|----|----|----|-----|-----|
| ... | ... | 1  | 2  | 3  | 4   | 5   |
| 6   | 7   | 8  | 9  | 10 | 11  | 12  |
| 13  | 14  | 15 | 16 | 17 | 18  | 19  |
| 20  | 21  | 22 | 23 | 24 | 25  | 26  |
| 27  | 28  | 29 | 30 | 31 | ... | ... |

## SEPTEMBER

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | 1   | 2   |
| 3   | 4   | 5   | 6   | 7   | 8   | 9   |
| 10  | 11  | 12  | 13  | 14  | 15  | 16  |
| 17  | 18  | 19  | 20  | 21  | 22  | 23  |
| 24  | 25  | 26  | 27  | 28  | 29  | 30  |
| ... | ... | ... | ... | ... | ... | ... |

## OCTOBER

| S  | M  | T  | W   | T   | F   | S   |
|----|----|----|-----|-----|-----|-----|
| 1  | 2  | 3  | 4   | 5   | 6   | 7   |
| 8  | 9  | 10 | 11  | 12  | 13  | 14  |
| 15 | 16 | 17 | 18  | 19  | 20  | 21  |
| 22 | 23 | 24 | 25  | 26  | 27  | 28  |
| 29 | 30 | 31 | ... | ... | ... | ... |

## NOVEMBER

| S   | M   | T   | W  | T  | F   | S   |
|-----|-----|-----|----|----|-----|-----|
| ... | ... | ... | 1  | 2  | 3   | 4   |
| 5   | 6   | 7   | 8  | 9  | 10  | 11  |
| 12  | 13  | 14  | 15 | 16 | 17  | 18  |
| 19  | 20  | 21  | 22 | 23 | 24  | 25  |
| 26  | 27  | 28  | 29 | 30 | ... | ... |

## DECEMBER

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | 1   | 2   |
| 3   | 4   | 5   | 6   | 7   | 8   | 9   |
| 10  | 11  | 12  | 13  | 14  | 15  | 16  |
| 17  | 18  | 19  | 20  | 21  | 22  | 23  |
| 24  | 25  | 26  | 27  | 28  | 29  | 30  |
| 31  | ... | ... | ... | ... | ... | ... |

1923

## JANUARY

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | ... | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  | ... | ... | ... | ... | ... |

## FEBRUARY

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | 1   | 2   |
| 3   | 4   | 5   | 6   | 7   | 8   | 9   |
| 10  | 11  | 12  | 13  | 14  | 15  | 16  |
| 17  | 18  | 19  | 20  | 21  | 22  | 23  |
| 24  | 25  | 26  | 27  | 28  | ... | ... |

## MARCH

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | 1   | 2   |
| 3   | 4   | 5   | 6   | 7   | 8   | 9   |
| 10  | 11  | 12  | 13  | 14  | 15  | 16  |
| 17  | 18  | 19  | 20  | 21  | 22  | 23  |
| 24  | 25  | 26  | 27  | 28  | 29  | 30  |
| 31  | ... | ... | ... | ... | ... | ... |

## APRIL

| S  | M  | T   | W   | T   | F   | S   |
|----|----|-----|-----|-----|-----|-----|
| 1  | 2  | 3   | 4   | 5   | 6   | 7   |
| 8  | 9  | 10  | 11  | 12  | 13  | 14  |
| 15 | 16 | 17  | 18  | 19  | 20  | 21  |
| 22 | 23 | 24  | 25  | 26  | 27  | 28  |
| 29 | 30 | ... | ... | ... | ... | ... |

## MAY

| S   | M   | T   | W  | T  | F  | S   |
|-----|-----|-----|----|----|----|-----|
| ... | ... | ... | 1  | 2  | 3  | 4   |
| 5   | 6   | 7   | 8  | 9  | 10 | 11  |
| 12  | 13  | 14  | 15 | 16 | 17 | 18  |
| 19  | 20  | 21  | 22 | 23 | 24 | 25  |
| 26  | 27  | 28  | 29 | 30 | 31 | ... |

## JUNE

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | 1   | 2   |
| 3   | 4   | 5   | 6   | 7   | 8   | 9   |
| 10  | 11  | 12  | 13  | 14  | 15  | 16  |
| 17  | 18  | 19  | 20  | 21  | 22  | 23  |
| 24  | 25  | 26  | 27  | 28  | 29  | 30  |
| ... | ... | ... | ... | ... | ... | ... |

## JULY

| S  | M  | T  | W   | T   | F   | S   |
|----|----|----|-----|-----|-----|-----|
| 1  | 2  | 3  | 4   | 5   | 6   | 7   |
| 8  | 9  | 10 | 11  | 12  | 13  | 14  |
| 15 | 16 | 17 | 18  | 19  | 20  | 21  |
| 22 | 23 | 24 | 25  | 26  | 27  | 28  |
| 29 | 30 | 31 | ... | ... | ... | ... |

## AUGUST

| S   | M   | T   | W  | T  | F  | S   |
|-----|-----|-----|----|----|----|-----|
| ... | ... | ... | 1  | 2  | 3  | 4   |
| 5   | 6   | 7   | 8  | 9  | 10 | 11  |
| 12  | 13  | 14  | 15 | 16 | 17 | 18  |
| 19  | 20  | 21  | 22 | 23 | 24 | 25  |
| 26  | 27  | 28  | 29 | 30 | 31 | ... |

## SEPTEMBER

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | ... | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | ... | ... | ... | ... | ... | ... |

## OCTOBER

| S   | M   | T   | W  | T  | F  | S   |
|-----|-----|-----|----|----|----|-----|
| ... | ... | ... | 1  | 2  | 3  | 4   |
| 5   | 6   | 7   | 8  | 9  | 10 | 11  |
| 12  | 13  | 14  | 15 | 16 | 17 | 18  |
| 19  | 20  | 21  | 22 | 23 | 24 | 25  |
| 26  | 27  | 28  | 29 | 30 | 31 | ... |

## NOVEMBER

| S   | M   | T   | W   | T  | F  | S   |
|-----|-----|-----|-----|----|----|-----|
| ... | ... | ... | ... | 1  | 2  | 3   |
| 4   | 5   | 6   | 7   | 8  | 9  | 10  |
| 11  | 12  | 13  | 14  | 15 | 16 | 17  |
| 18  | 19  | 20  | 21  | 22 | 23 | 24  |
| 25  | 26  | 27  | 28  | 29 | 30 | ... |

## DECEMBER

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | ... | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  | ... | ... | ... | ... | ... |

1924

## JANUARY

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | ... | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  | ... | ... | ... | ... | ... |

## FEBRUARY

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | ... | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| ... | ... | ... | ... | ... | ... | ... |

## MARCH

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | ... | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  | ... | ... | ... | ... | ... |

## APRIL

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | ... | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | ... | ... | ... | ... | ... | ... |

## MAY

| S   | M   | T   | W   | T   | F   | S   |
|-----|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | ... | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  | ... | ... | ... | ... | ... |

## JUNE

| S  | M  | T   | W   | T   | F   | S   |
|----|----|-----|-----|-----|-----|-----|
| 1  | 2  | 3   | 4   | 5   | 6   | 7   |
| 8  | 9  | 10  | 11  | 12  | 13  | 14  |
| 15 | 16 | 17  | 18  | 19  | 20  | 21  |
| 22 | 23 | 24  | 25  | 26  | 27  | 28  |
| 29 | 30 | ... | ... | ... | ... | ... |

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SERIES III

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## CALENDAR 1922-1923

1922

|                            |                                     |
|----------------------------|-------------------------------------|
| January 23-30.....         | Semester Examinations.              |
| January 30-February 1..... | Registration.                       |
| February 1.....            | Second Semester Begins.             |
| February 22.....           | Washington's Birthday.              |
| March 17.....              | President's Day.                    |
| April 13-17.....           | Both inclusive, Easter Recess.      |
| April 18.....              | Classes Resumed, 8 A. M.            |
| May 25.....                | *Ascension Day.                     |
| May 30.....                | Memorial Day.                       |
| June 6.....                | Semester Examinations.              |
| June 16.....               | Commencement.                       |
| June 26.....               | Summer Session Begins.              |
| August 4.....              | Summer Session Closes.              |
| September 11, 12, 13.....  | Entrance Examinations.              |
| September 13, 14, 15.....  | Registration.                       |
| September 14, 15, 16.....  | Conditioned Examinations.           |
| September 18.....          | Classes Begin.                      |
| November 1.....            | *All Saints Day                     |
| November 30.....           | Thanksgiving Recess Begins, 4 P. M. |
| December 4.....            | Classes Resumed, 8 A. M.            |
| December 8.....            | *Immaculate Conception.             |
| December 22.....           | Christmas Recess Begins, 4 P. M.    |

1923

|                       |                              |
|-----------------------|------------------------------|
| January 3.....        | Classes Resumed, 8 A. M.     |
| January 25.....       | Semester Examinations Begin. |
| February 1, 2.....    | Registration.                |
| February 5.....       | Second Semester Begins.      |
| February 22.....      | Washington's Birthday.       |
| March 16.....         | President's Day.             |
| March 23—April 2..... | Easter Recess.               |
| April 3.....          | Classes Resumed, 8 A. M.     |
| April 5, 6, 7.....    | Conditioned Examinations.    |
| May 10.....           | *Ascension Day.              |
| May 30.....           | Memorial Day.                |
| June 6.....           | Semester Examinations Begin. |

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|                           |                                     |
|---------------------------|-------------------------------------|
| June 15.....              | Commencement.                       |
| June 25.....              | Summer Session Begins.              |
| August 3.....             | Summer Session Closes.              |
| September 12, 13, 14..... | Registration.                       |
| September 13, 14, 15..... | Conditioned Examinations.           |
| September 17.....         | Classes Begin.                      |
| November 1.....           | *All Saints Day.                    |
| November 29.....          | Thanksgiving Recess Begins, 4 P. M. |
| December 3.....           | Classes Resumed, 8 A. M.            |
| December 8.....           | *Immaculate Conception.             |
| December 21.....          | Christmas Recess Begins, 4 P. M.    |

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\*Classes begin at 10 A. M.



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### Council on Degrees and Graduate Work—

Vice-president Fox, Chairman; Dean Deglman, Dean Atkinson, Dean Danihy, Professor Menge.

### Student Activities—

Dean Deglman, Chairman; Dean Atkinson, Dean Danihy, Dean Tallmadge, Professors Abel, Murray, Theissen.

### Catalogues and University Publications—

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### Student Welfare—

Dean Deglman, Chairman; Dean Atkinson, Dean Danihy, Dean Tallmadge, Professors Bauer, Menge, Muehlmann, Reiner.

### Student Advisers—

Dean Atkinson, Dean Danihy, Professors Frumveller, Gilbert, Menge, Murray, Muehlmann, Reiner.

## **GENERAL INFORMATION**

### **LOCATION**

Marquette University is located in Milwaukee, the commercial and social center of the state of Wisconsin and an important manufacturing center of the middle west. The city is attractively situated on Lake Michigan, 85 miles north of Chicago. It is readily accessible from all points; ample railroad connections are afforded by the Chicago & Northwestern, the Chicago, Milwaukee & St. Paul, the Soo Line and three interurban lines. Also many points on Lake Michigan are in direct communication with Milwaukee by means of steamboat lines.

### **HISTORY**

The History of Marquette University begins as far back as 1855, when the first attempt was made to establish an institution of higher education in Milwaukee. Until 1906 its history is the history of Marquette College.

In 1907 a new charter was obtained and the name changed to Marquette University. Following this change an affiliation of the Milwaukee Medical College was effected in 1907, and of the Milwaukee Law School in 1908. In the latter year the Day Law School and the College of Applied Science and Engineering were begun. In the summer of 1910 the Mackie residence on Grand Avenue and Eleventh Street was acquired and fitted out for the Law School, which up to this time had held its sessions in the Marquette College building. During the same summer, property on Sycamore Street, between Eleventh and Twelfth Streets, was purchased and a concrete building erected for the use of the College of Engineering. In September, 1910, the College of Economics, known as the R. A. Johnston College of Economics, opened with the School of Business Administration and the School of Journalism. The Summer School, organized in 1909, has been very successful in its results, and shows an increased patronage with every season. In 1911, the Conservatory of Music secured a fine property on Tenth Street, between Wells and Cedar, offering the best material advantages for the study of music, in classroom and concert hall facilities. In 1918 the Conservatory was moved to its new location at 1505 Grand Avenue on the Plankinton property. In 1912, the affiliation of the Milwaukee Medical School with Marquette University came to a close, by the acquisition on the part of the University of possession and

complete control of the Schools of Medicine and Dentistry, of Trinity Hospital, and of the Training School for Nurses. Early in 1913 the property located at the corner of Fourth Street and Reservoir Avenue was purchased from the Wisconsin College of Physicians and Surgeons, and thus the two medical colleges of Milwaukee were merged in the new Medical Department of Marquette University, with the College of Medicine at Fourth Street and Reservoir Avenue, and the School of Dentistry at Ninth and Wells Streets. A complete reorganization of the college faculties, according to the suggestion of the American Medical Association, with a clinical and laboratory equipment to meet all modern requirements and the raising of the standard for entrance requirements took place, and in February, 1915, Marquette School of Medicine was accorded a "Class A" rating by the American Medical Association.

Thus it will be seen that, though Marquette University has been conducted under its new charter for only a few years, its growth has been rapid, and the development of the scope of its teaching has given proof of the desire and ambition of the Faculty and Board of Regents to make the work of the University as effective and far-reaching as their resources allow.

The Jesuit members of the Faculty give their time, training and teaching ability without salary or other recompense beyond personal support. For more than twenty-five years the faculty of Marquette have been devoting themselves in this manner to the people of Milwaukee, and they will continue to do so in the future. This fact explains how it is that Marquette could have established and maintained its institutions as it has done since the income derived from tuition in the academic and collegiate departments is necessarily small. Services without salary, and economy in administration explain a situation that could obtain under no other conditions.

The original sum given for the foundation of Marquette College would appear very inconsiderable in comparison with college endowments of the present day. In subsequent years the University has been the recipient of only one large benefaction, the gift of the building for the College of Arts and Science, made by Mr. and Mrs. Robert A. Johnston in 1906. In March, 1916, a building and endowment campaign carried on in Milwaukee and in the state of Wisconsin resulted in a \$503,471.23 fund. In 1918, the Carnegie Foundation for the Advancement of Teaching offered the University two-thirds of a million dollars for the Medical School, on condition that

the University raise one-third of a million dollars. The campaign for this amount was successful, and the Medical School has an endowment of one million dollars, the income of which is used to conduct the Medical School.

If, however, the University is to grow and meet the demands that are made upon her, the funds for such development must in large part be furnished by public spirited citizens. For, on the one hand, the small surplus from tuition charges is not sufficient for any notable advancement, and, on the other, money-making cannot be a motive with the faculty of the University or with any institution of like character. Hence neither high rates in tuition can be considered, nor can the betterment of financial conditions resulting from unwise economy in equipment be contemplated. Well directed economy and prudent administration will succeed in conducting the University when once it is fully established; but funds for the grounds, buildings and equipment must come from other sources than those now at the command of the University.

### SYSTEM OF EDUCATION

The educational system in use at Marquette University is guided by the principles set forth in the *Ratio Studiorum*, a body of rules and suggestions outlined by the most prominent Jesuit educators in 1599, revised in 1832, and attended up to the present day with unfailing success.

Truly psychological in its methods, and based upon the very nature of man's mental processes, it secures on the one hand that stability so essential to educational thoroughness, while on the other it is elastic and makes liberal allowance for the widely varying circumstances of time and place. While retaining, as far as possible, all that is unquestionably valuable in the older learning, it adopts and incorporates the best results of modern progress. It is a noteworthy fact, however, that many of the recently devised methods of teaching, such as the Natural, and Inductive and similar methods, are admittedly and in reality mere revivals of devices recommended long ago in the *Ratio Studiorum*.\*

As understood by the Jesuits, education in its complete sense, is the full and harmonious development of all those faculties that are distinctive of man. It is more than mere

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\*Those who are desirous of further information on this subject are referred to "Jesuit Education," by Robert Swickerath, S. J. (Herder, St. Louis, 1903), and to the numerous documents therein cited.

instruction or the communication of knowledge. The acquirement of knowledge, though it necessarily pertains to any recognized system of education, is only a secondary result of education itself. Learning is an instrument of education, which has for its end culture, and mental and moral development.

Consonant with this view of the purpose of education, it is clear that only such means should be chosen both in kind and amount, as will effectively further the purpose of education itself. A student can not be forced, within the short period of his school course and with his immature faculties, to study a multiplicity of the languages and sciences into which the vast world of knowledge has been scientifically divided. It is evident, therefore, that the purpose of the mental training given is not *proximately* to fit the student for some special employment or profession, but to give him such a general, vigorous and rounded development as will enable him to cope successfully even with the unforeseen emergencies of life. While affording mental stability, it tends to remove the insularity of thought and want of mental elasticity which is one of the most hopeless and disheartening results of specialization on the part of students who have not brought to their studies the uniform mental training given by a systematic college course. The studies, therefore, are so graded and classified as to be adapted to the mental growth of the student and to the scientific unfolding of knowledge. They are so chosen and communicated that the student will gradually and harmoniously reach, as nearly as may be, that measure of culture of which he is capable.

It is fundamental in the Jesuit System that different studies have distinct educational values. Mathematics, the Natural Sciences, Language and History are complementary instruments of education to which the doctrine of equivalents can not be applied. The specific training given by one can not be supplied by another. The best educators of the present day are beginning to realize more fully than ever before that prescribed curricula, embracing well-chosen and co-ordinated studies, afford the student the most efficient means of mental cultivation and development. This, however, does not prohibit the offering of more than one of such systematic courses, as for instance, the Classical and the Scientific, in view of the future career of the individual. While recognizing the importance of Mathematics and the Natural Sciences, which unfold the inter-dependence and laws of the world of time and

space, the Jesuit System of education has unwaveringly kept Language in a position of honor, as an instrument of culture. Mathematics and the Natural Sciences bring the student into contact with the material aspects of nature, and exercise the deductive and inductive powers of reason. Language and History effect a higher union. They are manifestations of spirit to spirit, and by their study and their acquirement the whole mind of man is brought into widest and subtlest play. The acquisition of Language especially calls for delicacy of judgment and fineness of perception, and for a constant, keen and quick use of the reasoning powers.

Much stress is also laid on mental and moral philosophy, as well for the influence such study has in mental development, as for its power in steadying the judgment of the student in his outlook on the world and on life. Rational Philosophy, as a means of developing young manhood, is an instrument of strength and effectiveness.

But to obtain these results, Philosophy must be such in reality as well as in name. It must not content itself with vague groping after light, with teaching merely the history of philosophy; detailing the vagaries of the human mind without venturing to condemn them; reviewing the contradictory systems which have held sway for a time without any expression of opinion as to the fatal defects which caused them to be discarded. It must do more than this. It must present a logical, unified, complete system of mind-culture in accord with the established laws of human thought; it must take its stand on some definite propositions expressive of truth; it must rise to the dignity of a science. With such a definite system to defend against attack, the mind becomes more acute and plastic, the logical powers are strengthened, the value of a proof is properly estimated, the vulnerable points of error are readily detected, and truth comes forth triumphant from every conflict of mind with mind.

Finally, the Jesuit System does not share the delusion of those who seem to imagine that education, understood as an enriching and stimulating of the intellectual faculties, has of itself a morally elevating influence in human life. While conceding the effects of education in energizing and refining the student's imagination, taste, understanding and powers of observation, it has always held that knowledge and intellectual development, of themselves, have no moral efficacy. Religion alone can purify the heart and guide and strengthen the will. This being the case, the Jesuit System aims at developing side

by side the moral and intellectual faculties of the student, and sending forth into the world men of sound judgment, of acute and rounded intellect, of upright and manly conscience. It maintains, that to be effective, morality is to be taught continuously; it must be the underlying base, the vital force supporting and animating the whole organic structure of education. It must be the atmosphere that the student breathes; it must suffuse with its light all that he reads, illuminating what is noble and exposing what is base, giving to the true and false their relative light and shade. In a word the purpose of Jesuit teaching is to lay a solid substructure in the whole mind and character for any superstructure of science, professional and special, as well as for the upbuilding of moral life, civil and religious.

### MORAL AND RELIGIOUS TRAINING

The enforcement of discipline, though mild and considerate, is unflinchingly firm, especially where there is a question of the good of the student body or of the reputation of the University. A student whose influence is deemed prejudicial may be removed from the University, although no formal charge be made against him.

Young men in the final stage of formation before entering the lists of their career, have their own peculiar and personal problems. In no segment of a man's concerns, is there more vital need of the assistance of an expert. This need is met in the office of the Dean of Men. In him, mature judgment and intelligent sympathy are at the command of all who may have occasion to seek guidance in their personal affairs. By obligation of his office, he is the friend and confidant of all students who may come to him. They may consult him at any hour.

### GROUNDS

The Administration Building, the Law School building, the College of Applied Science and Engineering, and the Hitz and Winkler buildings, temporarily used for classroom purposes, are located on the property bounded by Eleventh Street, Thirteenth Street, Grand Avenue, and Sycamore Street.

In the block bounded by Fifteenth Street, Grand Avenue, Sixteenth Street, and Clybourn Street, are located the Conservatory of Music, the new gymnasium, Trinity Hospital Annex, and the new building for the College of Dentistry.

The School of Medicine and the Marquette Dispensary are located at Fourth Street and Reservoir Avenue.

The present home of the College of Dentistry, Trinity Hospital, and the Training School for Nurses are located on the two properties at Ninth and Wells Streets.

The Academy and the Athletic Field cover the square between Tenth Street on the east, Eleventh on the west, State on the south, and Prairie on the north.

The Marquette Union buildings are located on Thirteenth Street, between Grand Avenue and Sycamore Street.

## **BUILDINGS**

### **ADMINISTRATION BUILDING**

The offices of the President, Vice-President, of the Deans of the Colleges of Arts and Science and of Economics and of the School of Journalism, and that of the Registrar and the Bursar are located in the Administration Building. The rest of the building is devoted to class rooms and laboratories.

### **THE GYMNASIUM**

The new gymnasium located on Clybourn Street between Fifteenth and Sixteenth Streets, is built in the English Gothic style. The building is planned in an "H" shape with an over all diameter of two hundred and ninety-three feet. The gymnasium proper has a width of ninety-two feet and a length of one hundred and sixty feet. The dimensions of the east and west wings are forty-eight feet by one hundred forty-two, and are separated from the gymnasium proper by the entrance to the building and stairhalls twenty feet in width. The outside of the building is faced with a rough texture brick, richly ornamented with Bedford stone, and crowned with a roof of red Spanish tile. The interior walls of the gymnasium are lined with glazed face brick.

The gymnasium will be well lighted with the latest types of illuminating units, and the heating system, as well as the plumbing, is of the most modern type. The ground floor of the building contains locker rooms with accommodations for 1,080 students, home and visiting team rooms, shower baths, toilet and wash rooms, also a spacious billiard room to be fitted up with eight tables; five bowling alleys, a college store where refreshments and lunches will be served, also card and club

rooms. The gymnasium contains a running track suspended from the roof trusses and connected to the basement locker and shower rooms by means of corner spiral stairways. Accommodations will be arranged for approximately 2,500 spectators who will be able to see from every angle the basket ball and indoor baseball games, owing to the vast size of the gymnasium floor and the fact that there are absolutely no obstructions in the line of vision.

## **LABORATORIES**

### **ASTRONOMY**

The Astronomical Observatory is located in the Arts and Science Building and is well equipped for the ordinary observations and for student practice and study.

### **BOTANY**

The botanical laboratory occupies the first floor of Winkler Hall. The installation includes laboratories, private research rooms, and apparatus composing an equipment competent to deal with many of the problems of modern biology.

### **CHEMISTRY**

The Chemistry lecture room and laboratories occupy the fourth floor of the Administration building.

The lecture room has a capacity of seventy-five students and is equipped with fume chamber for demonstrations, the lecture tables being supplied with necessary gas, water and electrical connections.

The laboratories have concrete floors throughout and are well lighted. They contain tables with locker equipment for two hundred and eighty students, each locker being furnished with the necessary glassware; apparatus to replace that broken, or for special experiments, may be drawn from the stock room.

The tables are supplied with water and gas connections. Each table has connections to 110 V. direct and 110 V. and 220 V. alternating electric currents.

The balance room contains V5 analytical balances and a sufficient number of others less sensitive.

The equipment for quantitative and applied analysis includes the necessary graduated glassware, electrodes and stands for electrolytical analysis; stills for analysis of water;

Hempel's, Elliott's, and Orsat's gas pipettes, calorimeter, combustion furnaces, etc.

### PHYSICS

The Physics Department occupies the third floor of the Administration Building. It comprises two lecture halls, one large and two smaller laboratories, a reference library and an office.

Besides the usual apparatus for lecture demonstrations, the large hall is equipped with a Bausch & Lomb convertible Balopticon; a 16 plate Birtman Static Machine; a 5 K. W. dissectible transformer, provided with a welding coil and coils for 110, 220, 1,000 and 25,000 volts; a complete set of apparatus for demonstrations with high tension and high frequency currents, consisting of a 3 K. W. magnetic shunt transformer, 220-20,000 volts, high tension condensers, primary and secondary coils, etc.

Other apparatus available for demonstration and lecture purposes are: two ten-inch spark Scheidel induction coils; a rotary high vacuum pump; a Langmuir condensation pump; a 3 K. W. Thordarson rotary converter for single phase, two and three phase alternating currents, apparatus for different experiments with polarized light.

The Physics Laboratory is equipped with several sets of apparatus for experiments usually given in a recognized laboratory course in college Physics.

Besides it contains equipment for more advanced laboratory courses, such as: cathetometer, Leitz, and Bausch & Lomb microscopes, two electrical laboratory and one astronomical clock, air thermometer, Michelson's interferometer, Lummer-Brodhun photometer box, spectroscopes and spectrometers, Leeds and Northrup potentiometer, standard cells, standard condensers and resistances, high sensitivity galvanometer, vibration galvanometer, wheatstone bridge boxes and precision slide-wire bridge.

### ZOOLOGY

The entire fifth floor of the Administration Building, occupying a space of approximately three thousand square feet, is devoted exclusively to the work of the first two years of zoological study. There is a large general laboratory

accommodating ninety students in a section, a technique room, a dark-room for photographic work, two offices and large store rooms.

In addition to the above, two well-arranged rooms are set aside for advanced work in the Hitz Building, directly back of the Administration Building. Suitable quarters are also reserved for the housing of animals in the basement.

The laboratories are supplied with all equipment needed for the most thorough work. Each student is furnished with a first-class compound microscope with both high and low power objectives.

### LIBRARY FACILITIES

The magnificent public library of the city is within two blocks of the Schools of Journalism, Arts and Science, Law, Economics, Engineering. The arrangement of the library is an ideal one for students, who have access to all the books for consultation and study, and may with special privilege take home with them as many books as are necessary for the preparation of essays, debates, etc. The main library and its eight branches contain 350,000 volumes.

In the History room are more than 40,000 volumes, including 10,000 on Sociology, 9,000 on Travel, 10,000 on Biography, and 11,000 on History. The Philosophy room contains about 3,500 volumes.

The Literature and Reading Room contains 38,000 volumes, from the American, English, French, German, Grecian, Roman, Italian, Spanish, Portuguese, Swedish, Danish, Dutch, Flemish, Semitic, Slavic, Japanese, Chinese and Celtic literatures.

The Science room has about 30,000 volumes, covering the fields of Mathematics, Physics, Chemistry, Geology, Biology, Archeology, Paleontology, Engineering and Agriculture.

### BEQUESTS

Whoever feels within him the noble prompting to strive for the uplifting of his fellow-men, will scarcely find richer returns for his investments than in the cause of Christian higher education. The world-long struggle between truth and error is now keenest in the intellectual field, and truth can only hope to win, if its champions are well equipped with all the

best weapons of modern learning and research. We have confidence in our cause; let us show that we are willing to make sacrifices for it.

Persons of benevolent intentions sometimes hesitate to give needed assistance to colleges, under the mistaken impression that such benevolence aids only the sons of the wealthy, who should be able to provide for themselves. As a matter of fact the majority of students are the sons of parents who are making great sacrifices and depriving themselves of many comforts to give their sons a higher education. The number of wealthy students in our colleges is generally comparatively small. There is abundance of talent and ambition amongst our youth, but only a small portion of it is now being developed to the advantage of society. Nor can we hope that this wasted and unused talent and ability will be utilized, until our men and women of means learn to appreciate the importance of higher education to Church, state and individual, and at the same time realize how many are hindered from attaining those qualifications of which they are capable solely because of lack of opportunity.

We suggest that our benefactors use the following clause in their will if they desire to leave a bequest to Marquette University:

"I hereby devise and bequeath to Marquette University, a Wisconsin corporation located at the city of Milwaukee, Wisconsin, the sum of ..... dollars."

If they desire to bequeath any particular piece of property, instead of the words "sum of ..... dollars" they will describe the property.

## STUDENT ORGANIZATIONS

### SOCIAL ACTIVITIES

College life must include the development of the social side of every student's character. Marked initiative, *savoir faire* and leadership in organized religious and social movements for the common welfare of his fellows, are qualities expected of college men generally. For this purpose the University student organizations and activities furnish splendid opportunity.

However, be it said, that with regard to all forms of such activities the policy of the Faculty has always been that the

student's first duty in college is attention to study, and that no other student activity should be allowed to interfere with this main purpose of University life.

### ELIGIBILITY RULES

Students taking part in dramatic performances, public debates, oratorical or elocution contests, or athletic events, and those who are appointed assistants on the staff of the University publications, as well as all officers of student organizations, are subject to the following eligibility rules: (1) They must have no conditions and no failures; (2) They must have attained a weighted average of at least C in the previous semester examination; (3) They must not be under censure at the time of their election or appointment.

### SODALITY OF THE IMMACULATE CONCEPTION, B. V. M.

The object of this organization is Christian character formation upon the model of Jesus Christ under the inspiration and guidance of His Blessed Mother.

Christian character in its completeness implies two elements, one individualistic, the other social. The Sodality takes cognizance of both. It tries to develop personal goodness in the individual and make him realize his social responsibilities and shows him in a practical way how to fulfil them.

The Sodality employs various means to attain its purpose. It conducts weekly meetings at which the office of the Blessed Virgin is recited and instructions are given by the director. It conducts an annual Retreat which all Catholic students of the University are invited to attend, and organizes Sections for the promotion of Sodality activities.

Among the Sections organized are the following: The Eucharistic Section which endeavors to promote frequent reception of Holy Communion; The Literature Section which strives to support Catholic literature by contributing articles to, creating interest in, and selling Catholic periodicals; The Mission Section which stimulates interest in domestic and foreign missions among the students by the regular distribution of Mission literature and by arranging lectures, and seeks support for missionaries by collecting funds, old clothes, books, etc.; The Social Service Section which has for its object the promotion of social service work among the students by encouraging them to become Big Brothers, Scout Masters,

Vincentians, organizers and managers of boys' teams and leagues, and advocates of social reform measures; The Section on Illustrated Lectures which furnishes inspiring and elevating entertainment to Catholic audiences by delivering illustrated lectures on "Father Marquette," "The Standard Bearers of Christ" (The Missions), and "Our Lady's Shrine at Lourdes;" The Catholic Instruction League Section whose members teach catechism to Catholic children attending the public schools.

### **THE APOSTLESHIP OF PRAYER, LEAGUE OF THE SACRED HEART.**

This organization seeks to procure a happy means of fulfilling the command of God, "Pray always," by giving to even the ordinary daily action the efficacy of prayer.

The members hope by this means to further the designs of Jesus Christ, and they league themselves with Him to procure the spread of the grace of salvation to all men.

### **MARQUETTE UNIVERSITY LITERARY SOCIETY**

This society aims by weekly exercises in debating, essay-writing, recitations, criticisms and extempore speaking to prepare the members for public speaking and to increase their fund of information on questions of history, literature and political economy. The intercollegiate debates and the oratorical contest of the University are conducted by the Literary Society. Membership in the Society is a requisite for participation in intercollegiate debates.

Membership is open to students of all departments of the University. (Cf. Public Speaking 5-6).

The Moderator is a member of the faculty, appointed by the President of Marquette University. The other officers are elected by the members of the society.

### **PHILOSOPHERS' CLUB**

Members of the departments of Economics, Journalism, Arts and Science, and Law who are in the classes of Philosophy, are eligible to this organization which has for its object the discussion of philosophical questions. The meetings are held every second week throughout the academic year.

Each member chooses his own subject and when he has expressed his views an open discussion by the club takes place. The views as advanced are criticized and supplemented by facts and thoughts from all present.

### **ARTS AND SCIENCE ASSOCIATION**

The Arts and Science Association comprises in its membership all the students of the College of Arts and Science. Its aim is to promote the welfare of the department and to take an active interest in everything that makes for the progress and success of the University. This aim is accomplished by co-operation with all other student organizations in University activities, by participation in all literary and scholastic endeavors, by taking part in interdepartmental contests and by promoting union and kindly good fellowship among the students of the Arts and Science department.

Meetings are held every month and at such other times as may be determined by the officers and their committees.

### **AESCULAPIAN CLUB**

The Aesculapian Club came into existence in the fall of 1919 when a group of pre-medical students met for the purpose of bringing into closer union all those in the College of Arts and Science who were particularly interested in the biological sciences.

Since that time the activity of the members has been to correlate all work they may have taken into a closely knit and meaningful whole. With this in view, the regular meetings are given over to interesting, original papers in which stress is laid upon features of co-ordination. Four or five times a year, eminent men and advanced students of exceptional qualifications are brought before the club to make contributions of a like character.

Membership is by ballot. Those only are elected whose interest, scholarship, and aptitude for team-work are known. None, therefore, are chosen to membership until they have passed at least one semester in residence at the University.

### **THE HARLEQUIN CLUB**

The Harlequin Club is the student honorary dramatic club whose membership is open to any male student making a creditable showing and taking an active part in its productions. Each year the club produces and presents an original play,

all characters of which are taken by male students, including the female impersonations. The cast with a complete staff of electricians, stage hands, business staff and orchestra is taken on a tour of the larger cities of Wisconsin and neighboring states. In addition to the play, the Club produces a "Vodvil" during Prom Week.

The activities of the club are such that it affords abundant opportunity for the student to take an active part in some phase of the work and to be elected to membership.

### **MARQUETTE UNIVERSITY GLEE CLUB**

Membership in the University Glee Club is open to students from all departments. Each year the club makes an extended tour, and upon its return to Milwaukee gives a concert in one of the local theatres. Special emphasis is placed upon chorus work. Solo talent is encouraged and developed by competent instructors.

This coming year it is the object of the Moderator of the Club, not only to uphold the reputation these singers have gained in the past, but to enlarge the size and scope of the organization.

### **MARQUETTE UNIVERSITY BAND**

Marquette University Band is reorganized at the beginning of each school year. Men from every department, who play wind instruments come together under the leadership of the Glee Club director. The band figures in student rallies and parades, furnishes the music for the events of the football and basketball season, and it sometimes accompanies the team on its longer trips.

### **MARQUETTE UNION**

Marquette Union, a fellowship medium for all students of all departments, came into existence by unanimous vote at a large student mass-meeting in the year 1919-1920. The need of such an organization, little felt in the days of a University enrollment of five to six hundred, was found to be imperative when the count had reached two thousand.

The general aims of the Union are: (1) to foster genuine democracy among the students; (2) to develop their sense of responsibility; (3) to promote their powers of self-

government; (4) to cultivate the social factors of harmony and refinement.

The students agreed unanimously to the rule that each male student shall pay a yearly fee of five dollars for the maintenance of the Union. Its headquarters are located at a recently purchased private residence on the University grounds remodeled to meet the special needs of the Union.

### **MARQUETTE UNIVERSITY ALUMNI ASSOCIATION**

The first Alumni Association was formed in 1893, and continued, as the Marquette College Alumni Association, until 1915. With the expansion of the Alma Mater to university proportions, came new organizations within the departments. While certain of them flourished, others waned; and in spite of efforts to establish unified aims and activities, little was accomplished in face of actual interdivision of groups. To remedy this inherent defect, and to provide a strong, operative University Association, the various departmental organizations determined to merge their memberships into one. The new body, representing University spirit and University aims, was to combine the forces of all the Alumni for the support and advancement of their Alma Mater in all her undertakings.

On Thursday, November 28, 1915, members of the various bodies met and agreed with whole-hearted accord that the reorganization be effected; and all existing Alumni associations were thereby combined in one—The Marquette University Alumni Association—with a constitution and by-laws properly adopted.

On Monday, March 21, 1921, a charter was granted to the Marquette University Alumni Association as an independent non-stock Wisconsin corporation.

### **MARQUETTE UNIVERSITY ATHLETIC ASSOCIATION**

The object of this association is to furnish the students with the best facilities for the promotion of general athletics. Realizing the necessity of suitable recreation and relaxation of both mind and body for those engaged in mental pursuits, the University authorities have at all times encouraged manly sports among the students. However, only those who are regular in class attendance and up to the standard in class work are allowed to take part in any athletic contests in which the University is represented.

All students are required to pay an annual fee of five dollars, which entitles them without further charge, to attend all athletic events in Milwaukee, conducted under the auspices of the University. The Association newly organized in 1913, is managed by a Board of Control, representing the Faculty, the Alumni and the Student-body.

## **PUBLICATIONS**

### **MARQUETTE TRIBUNE**

The Tribune is the official weekly newspaper of the University. It is issued from the school's own printshop, edited, managed, and printed by the students of the School of Journalism. The board of editors and managers is appointed by the Dean of Journalism. The aims of The Tribune are: To purvey news of the University, to aid in constructive work, and to afford the students of Journalism an opportunity for actual practice in newspaper editing, managing and make-up. The Wisconsin Collegiate Press Association placed The Marquette Tribune first among the school papers of the state.

### **MARQUETTE UNIVERSITY JOURNAL**

The Journal is a periodical published during the months of October, December, February, April and June, by a board of editors of Marquette University. Its aim is three-fold: first, to bring to higher efficiency the literary expression of students of all departments; second, to chronicle the literary, social and athletic events of the University; third, to serve as a channel of communication between old and attending students.

### **THE HILLTOP**

The Hilltop is the Marquette University annual. It is issued from the school's own printshop, and written, edited, and managed by the students of the entire school with the guidance of the students of the School of Journalism. Every department has its representatives on the business and editorial board.

The annual is a review of the school year and a biography of all the graduates. Everything and everybody in the school is sure to receive at least a mention.

## EXPENSES

### TUITION AND FEES

No student will be admitted to classes before the fees for the current semester have been paid. No exception will be made and students should come prepared. Tuition and fees once paid cannot under any circumstances be returned. A student who leaves the University for valid reasons during the year will get credit for the paid tuition provided that he pursues his departmental studies within one year from the date of his withdrawal. Tickets cannot be transferred. Students make an implicit contract with the institution to observe these conditions when they pay their dues.

|                                              |          |
|----------------------------------------------|----------|
| Tuition for the academic year .....          | \$100.00 |
| Laboratory Fee, Botany.....                  | 10.00    |
| Laboratory Fee, Physics .....                | 10.00    |
| Laboratory Fee, Chemistry .....              | 10.00    |
| Laboratory Fee, Zoology.....                 | 25.00    |
| Microscope Fee .....                         | 5.00     |
| Breakage Deposit (Laboratory Students) ..... | 10.00    |
| Athletic Fee .....                           | 10.00    |
| Gymnasium Fee .....                          | 5.00     |
| Marquette Union Fee .....                    | 5.00     |
| Matriculation Fee (Paid Once) .....          | 10.00    |
| Conditioned Examinations .....               | 1.00     |
| Special Examination .....                    | 2.00     |
| Diploma Fee .....                            | 10.00    |
| Additional Transcripts of Records .....      | 1.00     |

Payments for tuition must be made semi-annually in advance. Students, whose accounts with the Bursar are not settled, will not be admitted to examination.

Students who desire gymnasium lockers are charged two dollars.

### LIVING EXPENSES

Good board and lodging can be secured near the University at the rate of \$10 per week and upward.

A faculty committee examines all boarding and rooming houses and an approved list may be secured from the Secretary of the Marquette Union. This list will not be mailed out. The supply of rooming and boarding places greatly exceeds the demand and no prospective student should anticipate any trouble.

### DORMITORIES

The college has no dormitories for the accommodation of students. Those coming from homes at a distance from Milwaukee will, however, be able to find board and lodging in private families in the neighborhood of the University. Lists of suitable rooms will be furnished on application. Students coming to the city should apply at once at the Union House, 131 Thirteenth Street.

### OPPORTUNITY FOR SELF-SUPPORT

Because of its location in Milwaukee, one of the leading manufacturing centers of the Middle West, Marquette University offers unusual advantages to the student for self-support. For a couple of hours' service in cafes, hotels, or restaurants many of the students get their meals. Others earn enough on a Saturday afternoon to help considerably towards their expenses. There are many who are able to earn all their living and boarding expenses while keeping up with their studies. With regard to school expenses, it will be well to remember that the schedule of expenses at Marquette is to be understood as differing in meaning from like schedules in other colleges.

The fees at Marquette are not as numerous nor as heavy as they are in many other schools and as a consequence the expense of a student at Marquette even though he is required to pay tuition is not very different from that of students in other institutions.

The above statements are based upon fact. Any student can secure a position if he has the proper amount of aggressiveness. However, he should not expect to obtain work before the second or third week of his stay in Milwaukee.

The student should avail himself of the services of the Students' Free Employment Bureau.

Additional information concerning employment will be cheerfully given, but the University, as such, does not bind itself to secure positions for all prospective students.

### SCHOLARSHIPS

A word of explanation may be welcome as to the purpose and manner of the establishment of Scholarships. The Faculty receives numerous applications every year from deserving young men who have not sufficient means to pay the usual fees,

but who are eager to obtain the advantages of a thorough Catholic education. It is with regret that the Faculty finds it impossible to receive all these applicants, since in point of character and diligence they are often all that can be desired. Financial reasons, however, make it necessary to limit the number of pupils admitted free, and it is to widen these limits to greater numbers and open to them the benefit of a Catholic education and moral training that we appeal to the friends of the University.

Some of the friends of Marquette, realizing the importance and necessity of substantial encouragement and support, have tendered such encouragement and support in the most practical and desirable way, viz.: by establishing Scholarships.

A Permanent Scholarship is founded by the gift of \$2,000; it entitles the founder at all times to keep one student, designated by him and acceptable to the Faculty, free at the College of Arts and Science or at the Marquette University High School. If the founder fails to name an incumbent, the scholarship will be conferred upon some needy and deserving student.

The President and Faculty wish to express their grateful appreciation of the generosity of these friends of Catholic higher education, and would suggest the founding of such Scholarships as an excellent means of assisting the University in its present need.

It should be understood, moreover, that any contribution, however small, may be applied to the good work of founding a scholarship—and the fractional contributions received will be applied to the purpose designated as soon as they shall have reached the sum required. In this way, every one may lend a hand, and the good done by securing to every earnest studious young man the priceless advantage of a Catholic education, is endlessly in excess of the moderate outlay involved. We recommend this work to those who feel moved to help poor and worthy students on their way in life.

The following Permanent Scholarships have been donated:

The Father Bosche Scholarship, by the members of the Gesu Parish, 1913.

The Loyola Scholarship, by a friend.

The Phelan Scholarship, by Miss Catherine Phelan.

The Marquette Scholarship, by a friend.

The Anton V. Romadka Scholarship.

The Xavier Scholarship, by a friend.

The Johnston Scholarship, in memory of George and Geo. F. Johnston.

The Berchmans Scholarship, by a friend.

The Merton Scholarship, by Hon. Ernest Merton, of Waukesha, Wis.

### **SCHOLARSHIP REQUIREMENTS**

1. A general average of B in a semester examination must be maintained by the holder of a scholarship.
2. The scholarship covers tuition only and does not excuse from the payment of fees.
3. Privileges of a scholarship may be withdrawn at any time by reason of unworthy conduct.

### **HONORS AND PRIZES**

#### **GRADUATION HONORS**

Diplomas are graded as rite, cum laude, magna cum laude, summa cum laude, according to scholarship.

Summa cum laude is fixed at ninety-seven per cent, magna cum laude at ninety-three per cent, and cum laude at ninety per cent.

These honors are announced at Commencement in June, are inscribed on the diplomas of the recipients, and appear in the published list of graduates in the annual catalogue.

#### **HONORS FOR SCHOLARSHIP**

The honors and prizes awarded at the end of the year are determined by the combined results of class work and examination.

Those who maintain an average of A (93-99) throughout the year merit the distinction of High Honors. An average of B (85-92) entitles a student to Honors. A student who fails to receive D in any subject in a semester examination is thereby disqualified to receive any honors during that year.

### INTERCOLLEGIATE ENGLISH PRIZE

A purse of \$100.00 (\$50.00 for the first prize, \$20.00 for the second, \$15.00 for the third, \$10.00 for the fourth, and \$5.00 for the fifth) is offered yearly by Mr. D. F. Bremner of Chicago for excellence in English essay writing. The purse is open to the competition of the Jesuit Colleges of the Missouri Province, which are:

St. Louis University, St. Louis, Mo.; St. Xavier College, Cincinnati, Ohio; St. Ignatius College, Chicago, Ill.; St. Mary's College, St. Mary's, Kan.; Creighton University, Omaha, Neb.; University of Detroit, Detroit, Mich.; Marquette University, Milwaukee, Wis.; St. John's College, Belize, British Honduras; St. Ignatius College, Cleveland, Ohio; St. John's University, Toledo, Ohio; Campion College, Prairie du Chien, Wis.; Regis College, Denver, Colo.; Rockhurst College, Kansas City, Mo.

### THE WILLIAM E. CRAMER ENGLISH PRIZE

A prize of \$50.00 established by Mrs. William E. Cramer in memory of her husband for the Marquette student who ranks highest in the Inter-Collegiate English Contest.

### INTERCOLLEGIATE LATIN PRIZE

For the best Latin essay from competitors of the same colleges, a gold medal is offered by the Very Reverend Provincial of the Missouri Province.

### ORATORICAL PRIZES

A gold medal, presented in alternate years by Mr. Francis X. Boden and Mr. and Mrs. August M. Grau, for the best oration given by a member of the Marquette Oratorical Society. Donor in 1922, Mr. and Mrs. August M. Grau.

A loving cup donated by the President of the University is awarded each year to the department whose student secures first place in the interdepartmental oratorical contest. In order to retain this cup permanently, a department must secure first place three years in succession. The cup this year was won by the College of Arts and Science.

### PRIZES FOR ELOCUTION

A gold medal is offered annually for the best speaker in the public contest; one medal is offered each class in Elocution, by members of the Marquette University Alumni.

## ADMINISTRATION

### COLLEGE YEAR

The college year begins the third week in September and includes thirty-six weeks, which are divided into two semesters of eighteen weeks each. There is a Christmas and an Easter recess. Classes are not held on legal holidays.

### ATTENDANCE

Every student is expected to attend class room and laboratory exercises regularly. No student whose absences in any course exceed fifteen per cent of the scheduled meetings of the class will be admitted to the midyear or final examinations in the course. Students thus excluded will receive a Failure for the course.

In applying this rule, students who are not present at class or laboratory exercises during the twenty-four hours preceding or following any University holiday or vacation will be marked three absences for each exercise missed unless permission has been previously asked for in writing and granted by the Dean.

It should be clearly understood that no student is entitled to a certain number of unexcused absences. No "cuts" are allowed. Teachers are to report to the Vice-President for their respective classes all students who are absent one-tenth of the recitations of the course as soon as that number shall have been reached.

In the case of absence due to illness the student must inform the Dean by mail or otherwise on the first day of the absence. In the case of absence due to illness or death of relatives, permission must be obtained in advance from the Dean.

If a student is present at a class room exercise, and reports in advance that he is unprepared, he will be charged with half an absence. If this lack of preparation is discovered during the recitation he will be charged with absence.

All omitted exercises, whether the absence is excused or not, must be made up within one week after the resumption of college duties as appointed by the professor whose exercises were omitted or they will be counted as Failures in determining the student's grade. An excuse for absence does not re-

lieve the student from responsibility for the work of his class during his absence. The responsibility in all these cases rests with the student.

Tardiness of less than ten minutes at a class room exercise counts as half an absence. Tardiness of more than ten minutes at a class room exercise will count as absence.

If a student is absent either with or without excuse from six per cent or more of the exercises of a given class in any semester, he will be required to take an extra examination which will ordinarily cover the work gone over during his absence. For each additional absence in any subject a deduction of one per cent will be made from the student's final grade in that subject. If a student is absent from fifteen per cent of the class or laboratory exercises of a course, he shall be barred from the semester examination in that course.

### DISCIPLINE

The educational system employed by the University includes, as one of its most important features, the formation of character. For this reason, the discipline, while considerate, is unflinchingly firm, especially when the good of the student body and the reputation of the institution are concerned.

While it is the policy of the Faculty to trust as much as possible to the honor of the students themselves in carrying on the government of the University, nevertheless, for the maintaining of order and discipline, without which the desired results are not attainable, regular and punctual attendance, obedience to University regulations, serious application to study and blameless conduct will be insisted upon; and honor, fair-dealing, self-restraint and fortitude will be demanded as the natural and necessary virtues of genuine character. Any serious neglect of these essential points will render the offender liable to censure, even to that of dismissal.

### Censure

There are four grades of censure: probation, suspension, dismissal, and expulsion. By probation is meant that the student has forfeited the confidence and high esteem of the University authorities and is required to restore them by definite and manifest acts of attention to duty in conduct and academic work. Suspension is exclusion from the University for an indefinite period, not to exceed one semester. Dismissal is ex-

clusion for a period not to exceed two semesters. Expulsion is the final exclusion of the student from the University and is the highest academic censure and may or may not, according to circumstances, be publicly administered.

The University reserves the right to dismiss at any time a student who fails to give satisfactory evidence of earnestness of purpose and of interest, primarily, in the serious work of university life. Dismissal may be made without specific charges, and, in rare cases, perhaps on grounds that seem insufficient to students or parents. The University in these cases holds itself to be the more capable judge of what affects the interests of the institution and the student body. Those who are unprepared to accept this condition should not apply for admission.

## EXAMINATIONS

### Entrance Examinations

Examinations will be conducted by the Dean, but the head of the department concerned will be responsible for the preparation of questions, prompt reading of the papers, and the reporting of the results. The questions will ordinarily constitute an examination of two hours.

### Tests

Partial examinations or tests or written recitations are held from time to time during the semester with or without previous notice to the students at the discretion of the instructor. Absence, for whatever reason, from a test which has been duly announced is reckoned the equivalent of absence from three ordinary class exercises.

### Semester Examinations

Examinations in all subjects are held at the close of the semester. The result of the semester examination, combined with the student's class work (each to count one-half) will determine his grade for the semester. Students who, for any cause, have been absent from more than fifteen per cent of the exercises in any course will not be admitted to the examination in that course. A student who has been absent from the regular examination for reasons satisfactory to the Dean may be examined at a time to be determined by the Dean. Unexcused absence from the semester examination counts as failure.

### **Supplementary Examinations**

A condition (E) due to failure in the semester examination may be removed by a supplementary examination upon recommendation of the department concerned and with the approval of the Dean of the college. These examinations may be taken only on the day specified, and may not be deferred except with the express consent of the Dean. A conditioned student who desires such examination must notify the Registrar in writing one week in advance so that examination questions may be prepared. He must also notify the Dean so that arrangements may be made for holding the examination. Any student failing to give such notice shall not be allowed to take the examination. A student may take only one examination to remove a condition. If he fails to pass a subject both in the regular and supplementary examination, he must repeat the course the next time it is offered in class. Removal of condition by examination shall not entitle the student to a grade higher than D. A conditioned student absent from the regular or supplementary examination must present an excuse satisfactory to the Dean or receive a grade of F for the course.

Conditions may be incurred: (a) by failure to satisfy the requirements in a course, which requirement includes recitations, tests, and other assigned work as well as the examination; (b) by exclusion from examination because of excessive class-room absences\*; (c) by absence due to any cause on a day appointed for examination provided the work done during the semester is below passing.

The fee for each examination for the removal of conditions shall be one dollar. Students who are absent from conditioned examinations with the permission of the Dean to take such examination at other than the regular time shall pay five dollars for each examination. No student shall be allowed to take these examinations until he presents a receipt from the Bursar for this fee.

### **Special Examinations for Credit**

Special examinations may be given upon the recommendation of the head of the department concerned and with the approval of the Dean of the college in which the student is enrolled. No credit in a beginning language course may be gained by such special examination.

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\*The right to examination in any subject at the end of a semester will be refused (a) to those who have not been present 85 per cent of the class time, or (b) who have not handed in 85 per cent of written assignments in laboratory or other work.

### CLASSIFICATION OF STUDENTS

No student will be advanced to a higher class if he has any conditions prior to the year in which he ranks.

Those students are ranked as Sophomores who have at least twenty-four credit hours and points and have completed the prescribed courses of freshman year; Juniors, those who have fifty-six credits and points and have completed the prescribed courses of the sophomore year; Seniors, those who have ninety-two credit hours and points and have completed the prescribed courses of the junior year.

No student will be considered a candidate for graduation if he has any deficiency at the beginning of the second semester of the senior year.

### REPORTS

Every professor reports three times a semester to the Dean, on blanks provided for that purpose, the standing of each student in his classes, together with the number of his absences and deficiencies in class work. When a student is seen to be falling behind in his studies, he is notified at once and counselled to bring up his standing. If no improvement is shown, his parents or guardians are notified.

A detailed report of scholarship, attendance and conduct is sent to parents and guardians twice a year. Special reports of individual students will be furnished at any time upon request.

### TRANSCRIPTS OF RECORDS

Students wishing transcripts of records in order to transfer from this College to another or for other purposes should make early and seasonable application for the same. No such statements will be made out during the busy periods of examination and registration. One transcript of record will be issued without charge. A fee is required for all additional copies.

### STUDENT ADVISERS

Students are assigned to general advisers in the second semester of the Freshman year. The adviser must be retained throughout the student's course, unless special permission is obtained to change. The student's general electives must be selected under the direction of the general adviser, whose sig-

nature must appear on the registration card. In the Junior and Senior years the student must first secure the signature of the head of the department in which he is doing his major work, and second, the signature of the general adviser. During the time of registration the advisers keep office hours. The Dean of the College is chairman of the Board of Advisers, and is temporarily general adviser for all Freshmen and all new students admitted with advanced standing.

## ADMISSION

### I. GENERAL STATEMENT

Academic preparation, as secured by the completion of a standard high school is essential to a student who wishes to enter the University. Experience shows that the chief cause of failure in college classes is lack of preparation; and many applicants who have had good school opportunities are found to be particularly deficient in their knowledge of preparatory mathematics and in their ability to use the English language. A thorough working knowledge, therefore, of the preparatory subjects is absolutely necessary in order to begin and carry on the prescribed work of the University, and it is manifestly unfair to the applicant himself to admit him to University study if the record of his high school work does not demonstrate that his preparation is sufficient to accomplish his University work successfully. The University classes begin where the preparatory work of the High School ends and there is no opportunity after entering the University to make up those deficiencies which a student may have incurred in his preparation.

#### Testimonials

All applicants for admission to the College of Arts and Science must present satisfactory testimonials of good moral character.

#### Credentials

The College of Arts and Science requires for admission the satisfactory completion of a four-year course in a secondary school approved by a recognized accrediting agency or the equivalent of such a course. The major portion of the secondary school course presented by a student for admission should be definitely correlated with the curriculum to which he seeks admission.

All candidates for admission must offer fifteen units in acceptable subjects. No student will be admitted except on presentation of an official transcript of credits from the high school last attended. Credentials which are accepted for admission become the property of the University and are kept permanently on file.

Applications for admission, accompanied by proper credentials, should be presented to the Registrar at least one month before the opening of the semester, and will not be considered except by special action of the Committee on Admissions if presented later than two weeks before the opening of the semester. The University reserves the right to refuse to admit any student whose preparatory work is of such grade as to create a doubt regarding his ability to pursue college work successfully.

## II. METHODS OF ADMISSION

Admission to the College of Arts and Science may be obtained by one of the following methods: (1) By certificate; (2) by examination; (3) by a combination of the two methods.

### (a) Admission by Certificate

A candidate for admission by certificate must be an officially recommended graduate of an accredited high school.

#### Deficiencies

No quantitative conditions are permitted. Every student must offer at the time of admission fifteen units in acceptable subjects. However, a student who offers fifteen acceptable units including the units prescribed for all curricula, but who is deficient in not more than two units in subjects prescribed only for the college or department which he wishes to enter, may be admitted to that college or curriculum, subject to the requirement that the deficiencies in question shall be removed before he may be registered for the second year's work.

A student with deficiencies must pay an extra tuition fee of \$12.50 each semester in addition to the regular tuition fees.

### (b) Admission by Examination

Applicants who are not entitled to enter on certificate must take entrance examinations in the entire number of units (page 40), and, if these are satisfactory, the candidate will be admitted, provided he presents supplementary evidence of preparation equivalent to that furnished by a four-year high school course. These examinations may be taken on the days

indicated in the college calendar. Students desiring entrance examinations should inform the Registrar of the fact at least a week before the dates noted above.

Certificates of successful examinations before the College Entrance Examination Board will be accepted in lieu of matriculation examinations conducted by the University.

**(c) Admission by Examination and Certificate**

An applicant who has not been graduated from an accredited high school must pass entrance examinations in the following subjects amounting to five units:

|                                                                           |         |
|---------------------------------------------------------------------------|---------|
| English .....                                                             | 1 unit  |
| Algebra .....                                                             | 1 unit  |
| Additional subjects to be designated by the Committee on Admissions ..... | 3 units |
| <hr/>                                                                     |         |
| Total .....                                                               | 5 units |

The remaining ten units necessary to make up the fifteen units required for admission may also be made up in entrance examinations or may be offered by certificate from an accredited school.

**(d) Admission on Probation**

Graduates of four-year non-accredited high schools in Wisconsin will be admitted without examination on probation for one semester on the special recommendation of the principal, provided such graduates in their high school course have satisfied fully the requirements for admission to the University, and have maintained a standing of ten per cent above the passing mark in their preparatory work.

Graduates of other secondary schools outside of Wisconsin not accredited by a recognized standardizing body will be admitted on probation for one semester on the special recommendation of the high school principal provided (a) that such school is accredited by the state university or other recognized university or college within the state; (b) that the minimum admission requirements of Marquette University be fulfilled both as regards the amount, character, and quality of the work.

N. B. This rule is inapplicable to the collegiate premedical courses.

**ADMISSION TO ADVANCED STANDING**

Matriculated students may secure advanced standing either by examination or by presenting credits.

## I. Colleges and Universities

### (a) By Examination

Advanced standing will be granted only by examination unless applicant is from an approved college. These examinations are given without fee if taken within sixty days after matriculation; if taken later, a fee of five dollars is charged for each examination.

### (b) By Transcript of Record

Candidates for admission from institutions of collegiate rank of recognized standing may be granted the same standing as at the former institution upon presenting in advance of registration:

1. A certificate of honorable dismissal.
2. An official transcript of college credits, with specifications of courses and year when taken, hours and grades. Such courses must be collegiate, and not professional or vocational in character.
3. An official certified statement of entrance credits and conditions, showing the length of each course in weeks, the number of recitations and laboratory exercises each week, the length of recitation and the mark secured.
4. A marked copy of the catalogue of the college previously attended, indicating the courses for which credit is desired.

## II. Normal Schools

### (a) In Wisconsin

(1) **Two-year college courses.** Advanced credit will be granted for college studies up to sixty credits for two years' full work, provided the student, at the time of entering the normal school, was fully prepared to enter the Freshman class of this College.

(2) **Two-year professional courses.** The credentials of students and graduates of these courses will be examined individually. If their preparatory studies are satisfactory, they may be given advanced standing varying from thirty to sixty credits depending on the nature and amount of work taken in the normal school.

### (b) Outside Wisconsin

Students will be granted such credit as their former work entitles them, provided that, in addition to their high school

and normal school certificates, they also present an official statement showing what evaluation their State University would allow for their normal school work.

### III. Junior Colleges

Students from Junior Colleges will be admitted to advanced standing at this University upon fulfillment of the conditions stated above under I (a, b).

### UNCLASSIFIED STUDENTS

A graduate of a four-year accredited secondary school who does not meet the requirements for admission to freshman standing may, upon recommendation of his principal, be admitted as an unclassified student. Such a student will be allowed to enroll for those courses only for which he has had adequate preparation. By virtue of his classification, he is not a candidate for a degree, but he may ultimately become a candidate for a degree by fulfilling as part of his college prescriptions all the requirements for entrance to and graduation from the college in which he is registered. An unclassified student is required to register so that all entrance deficiencies will be removed by the end of his first year of residence. Failure to comply with this requirement will render a student ineligible for readmission until all deficiencies have been removed.

### ADULT SPECIAL STUDENTS

The rules governing the admission of adult special students are as follows:

1. For admission to the College of Arts and Science, a special student must be at least twenty-one years of age.
2. A student from an accredited high school will not be admitted to this classification if he has been in attendance in the high school during the previous year.
3. All available certified credits for previous school work must be submitted to the Registrar and an application blank for admission as a special student filled out, giving, in addition to other information, the kind of work desired, the reasons for desiring such work, and, when no credits can be presented, a detailed statement of any previous educational work and practical experience.

4. By virtue of his classification, a special student is not eligible for any degree. He may ultimately become a candidate for a degree, however, by completing the admission requirements of the college in which he is registered.

5. Registration as a special student is for one semester only. Re-registration will be refused if the student has not shown satisfactory earnestness and definiteness of purpose, or if his work has not been good.

**Two-year Limit.** No one may register in the University as a special student for more than two years.

### ENTRANCE PROCEDURE

Correspondence concerning admission should be addressed to the Registrar as follows:  
consin.

#### A. CREDENTIALS

Undergraduate students should send credentials by mail to the Registrar, Marquette University, Milwaukee, Wis  
(1) **For Admission by Certificate From an Accredited School**

Application forms for admission by certificate which are to be used in every case may be had on application to the Registrar. Certificates must be made out and signed by the principal or other recognized officer of the high school and mailed by him directly to the Registrar. A catalogue of the school, if published, describing the course of study in detail, should accompany the certificate. All credentials should be mailed at least one month before the beginning of the semester in order to secure prompt attention. Compliance with this request will save applicants much inconvenience.

It is expected that the principal will recommend not all graduates, but only those whose ability, application, and scholarship are so clearly marked that the school is willing to stand sponsor for their success at college. The University reserves the right to require entrance examinations in the case of candidates for admission whose certificates show grades below 80 per cent in the prescribed units. No certificates will be accepted unless the holder has spent the last year of his high school course in the school issuing the certificate.

#### (2) **For Admission with Advanced Standing from Another Institution**

Applicants for admission who have been dropped on account of poor scholarship by another institution shall not be granted advanced standing for any work done in that institu-

tion. Students from other colleges must first have met the entrance requirements of this University. The amount of advanced credit to be granted by certificate will be estimated by the Committee on Admissions and will not be written into the permanent records until the student has been in residence in the University for one semester.

## **B. MATRICULATION AND REGISTRATION**

### **(a) Students in Residence**

Former students will register for the following semester on the days announced on the bulletin boards and in the University catalogue. They will proceed to the Dean's office there to arrange their schedule for the coming semester.

### **(b) New Students**

Procedure for new students will be as follows:

1. In case they come from a secondary school or another college they must present credentials to the Registrar and secure a certificate of admission. This should be done by correspondence as stated above. No student will be allowed to register after the first week of the semester without qualifying by the aid of an approved tutor.

2. They should matriculate in the office of the Dean of the College of Arts and Science. Matriculation is granted on presentation of the proper certificate of admission entitling the student to enter the University. As evidence of his membership in the University the student is given a matriculation card. This card should be retained at all times as it must be presented whenever membership in the University is to be demonstrated by the holder.

3. They will then register, in the same office, for the courses of study to be pursued during the ensuing semester. For this purpose the student will be given a registration card for the semester on which, after consultation with the Dean and with his approval, the courses desired will be entered.

4. The student will then proceed to the Bursar's office and pay the University fees for the ensuing semester. Here he shall present the matriculation card and the registration card. On payment of the fees, the Bursar will stamp the matriculation card and return it to the student, together with a receipt for tuition and other fees. Names of students will not be sent to instructors as entitled to attend classes until all fees have been paid. Students shall not receive credit for work for which they are not properly registered.

### CHANGES IN REGISTRATION

1. After the first day of the semester change of registration is permitted only (1) with the written consent of the Dean; (2) on payment of a fee of one dollar for each change thus made. In case the change is made upon the initiative of the University authorities no fee is required.

#### 2. Change of Courses

Changes in registration must be made officially in the Dean's office and must be approved by him. This applies to courses dropped, courses added, and changing from one course to another. No change in registration may be made after the fifth week of the semester. Students who drop a study with or without permission will be marked F on the Registrar's books. If a student is permitted at his own request to drop a course after attending the class for five weeks or more, he will be given a grade of F which will become a part of the permanent records just as if he failed at the end of the course.

#### 3. Change of Curriculum

(a) A student desiring to change from one school to another in the University must present a petition to the Registrar approved by the Deans of both Schools or both Freshman Advisers concerned in the change of course.

(b) If a minor, he must also present the written consent of his parent or guardian. The Registrar will then record the change and notify both Deans or Advisers. In the course that he enters, the student must complete all deficiencies under the direction of his Dean or Adviser.

### SUBJECTS ACCEPTED FOR ENTRANCE

Candidates for admission to the Freshman class shall present entrance credits amounting to fifteen units representing four years of high school work. A unit is a series of recitations or exercises in a given subject pursued continuously throughout the school year of not less than thirty-six weeks. The number of class exercises required a week for each unit shall be five. Double periods are required for laboratory courses.

Not more than four units may be offered in any one subject. Not less than a full unit will be accepted in the first year of any language, and then only when it is followed by two units in another language. Half units will be accepted, but

only when presented in addition to integral units in the same subject, or in half-year subjects which constitute a complete course in themselves, e. g., solid geometry.

Not more than three units will be accepted from the vocational group, and not more than one unit in any single subject in this group.

The major portion of the high school course offered for admission should be definitely correlated with the curriculum to which the student seeks admission. Subjects which may be offered for entrance and the number of units which will be accepted in each subject are as follows:

### GROUP A

#### Required Units

|                   |         |
|-------------------|---------|
| English .....     | 3 units |
| Mathematics ..... | 2 units |
| History .....     | 1 unit  |
| Science .....     | 1 unit  |

### GROUP B

#### Restricted Units

- (a) For the A.B. degree:
  - Latin (1) ..... 4 units
- (b) For the B. S. degree:
  - Foreign Language (2) ..... 2 units
  - Intermediate Algebra (3) .....  $\frac{1}{2}$  unit
- (c) For the Ph.B. degree:
  - Foreign Language ..... 2 units

### GROUP C

#### Elective Units

Enough electives must be chosen from this group to make, together with those from Group A and Group B, a total of twelve units. The following list shows the minimum and

(1) Students presenting full fifteen units without the prescribed four units in Latin will be given an opportunity to make up this requirement during the first two years of college.

(2) Students entering without the prescribed two units in a foreign language must make up this deficiency before the beginning of the Sophomore year.

(3) Candidates for the B.S. degree who present fifteen units, but only two units in Mathematics, may be admitted with the obligation of supplying the other half unit during the Freshman year.

maximum amount of matriculation credit allowed in each subject.

**Foreign Language:**

|               |           |
|---------------|-----------|
| Latin .....   | 2-4 units |
| Greek .....   | 1-3 units |
| French .....  | 2-4 units |
| German .....  | 2-4 units |
| Spanish ..... | 2-4 units |

**Mathematics:**

|                        |                    |
|------------------------|--------------------|
| Advanced Algebra ..... | $\frac{1}{2}$ unit |
| Solid Geometry .....   | $\frac{1}{2}$ unit |
| Trigonometry .....     | $\frac{1}{2}$ unit |

**Science\***

|                          |                       |
|--------------------------|-----------------------|
| Biology .....            | 1 unit                |
| Chemistry .....          | 1 unit                |
| Physics .....            | 1 unit                |
| Botany .....             | $\frac{1}{2}$ -1 unit |
| Zoology .....            | $\frac{1}{2}$ -1 unit |
| Physical Geography ..... | $\frac{1}{2}$ -1 unit |
| General Science .....    | $\frac{1}{2}$ -1 unit |

|               |                       |
|---------------|-----------------------|
| History ..... | 1-4 units             |
| Civics .....  | $\frac{1}{2}$ -1 unit |

|               |          |
|---------------|----------|
| English ..... | 1 unit** |
|---------------|----------|

**GROUP D**

**Miscellaneous**

The remaining three units may be selected from the commercial, industrial, or vocational subjects counted towards graduation in an accredited or recognized high school with the understanding that no subject may be presented for less than half a unit of credit, nor more than one unit of credit in any single subject in this group.

**SCOPE OF PREPARATORY SUBJECTS**

The following descriptive outline indicates the amount of preparation expected in each of the subjects named:

\*To count as a prescribed science subject these courses must include laboratory work.

\*\*In addition to that offered under Group A.

**ENGLISH\*****Rhetoric and Composition**

The applicant should be familiar with the principles of Rhetoric as set forth in Brook's, Scott-Denney or an equivalent. Entrance examinations in compositions will test the candidate's ability to write clear, idiomatic English. The subject will be taken from his experience and observation, or from the books he presents for examination. The spelling and punctuation must be correct, the sentences well constructed. The writer must show discrimination in the choice of words and ability to construct well-ordered paragraphs.

**LITERATURE****a. For Reading:**

Cooper, "The Spy," "The Last of the Mohicans"; Stevenson, "Treasure Island"; Poe, "Poems and Tales"; Scott, "The Talisman"; Longfellow, "Tales of a Wayside Inn"; DeQuincey, "Flight of a Tartar Tribe"; Eliot, "Silas Marner"; Shakespeare, "Julius Caesar"; Pope, "Essays on Criticism"; Tennyson, "Idylls of the King."

**b. For Study:**

Dickens, "Christmas Stories"; Irving, "Sketch Book"; Hawthorne, "Twice-Told Tales"; Scott, "Ivanhoe"; Whittier, "Snow-bound", and other poems; "Sir Roger de Coverly Papers"; Washington, "Farewell Address"; Webster, "Bunker Hill Oration"; Dickens, "David Copperfield"; Lowell, "Vision of Sir Launfal," and other poems; Lamb, "Essays of Elia"; Macaulay, "Essay on Johnson"; Garraghan, "Prose Types in Newman"; Newman, "Dream of Gerontius"; Shakespeare, "Merchant of Venice."

A knowledge of the subject matter and form of each work with an explanation of the principal allusions will be required together with the literary qualities, so far as they illustrate rhetorical principles, a biographical outline of the authors and an account of their works. (Three units).

**LATIN****a. Grammar and Composition**

The preparation in grammar and composition will require a thorough knowledge of the entire Latin grammar together with such facility in writing Latin prose as is required by one who satisfactorily completes the course of exercises prescribed by Marquette University High School. This course is based on Bennett's "New Latin Composition."

\*The Uniform College Entrance Requirements in English will be accepted, as will any fair equivalent work in this department.

**b. Reading**

Caesar's "Gallic War", four books; Nepos, "Lives" (6), may be taken in place of two books of Caesar; Cicero's Orations "Against Catiline" and "For Archias" and the "Manilian Law", Cicero's "De Senectute" and Sallust's "Catiline" or "Jugurthine War" may be taken as substitutes for three of the above orations. Vergil, four books of the "Aeneid" (or their equivalent from the Eclogues, or Georgics), and Ovid's "Metamorphoses." Examinations for entrance will include translation at sight of both prose and verse. (Four units.)

**GREEK****a. Grammar and Composition**

The preparation in grammar will require a thorough knowledge of etymology, of the syntax of cases, the rules of concord and prepositions. A working knowledge of the epic dialect; practice in metrical reading and written scansion; practice in reading at sight. For Greek the credit is three units. Composition should be based on Xenophon and test the candidate's ability to translate into Greek simple sentences with special reference to the use of forms, particularly of the irregular verbs, and the common rules of syntax.

**b. Reading**

Xenophon's "Anabasis," four books, or their equivalent; Homer's "Iliad" or "Odyssey," two books. Examinations for entrance will include translation at sight of both prose and verse. (Three units.)

**FRENCH\***

1. The first year's work should include careful drill in pronunciation and in the rudiments of grammar, abundant easy exercises designed to fix in mind the principles of grammar, the reading of 100 to 175 pages of graduated text, with constant practice in translating easy variations of the sentences read, and the writing of French from dictation. (One unit).

2. The second year's work shall comprise the reading of from two hundred and fifty to four hundred pages of easy modern prose in the form of stories, plays, or historical or biographical sketches, constant practice in translating into French easy variations upon the texts read, frequent abstracts—sometimes oral and sometimes written—of portions of the text already read, writing French from dictation, and continued grammatical drill, with constant application in the construction of sentences. (One unit).

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\*The admission requirements in French are those recommended by the Modern Language Association of America.

3. Advanced courses in French should comprise the reading of four hundred to six hundred pages of French of ordinary difficulty a portion to be in the dramatic form, constant practice in giving French paraphrases, abstracts, or reproduction from memory of selected portions of the matter read, the study of a grammar of moderate completeness and the writing from dictation. (One unit.)

### GERMAN\*

1. The first year's work should comprise careful drill in pronunciation; memorizing of easy, colloquial sentences; drill upon the rudiments of grammar; easy exercises, designed not only to fix in the mind the forms and principles of grammar, but also to cultivate readiness in reproducing natural forms of expression; the reading of from 55 to 100 pages of text; constant practice in translating into German easy variations upon sentences selected from the reading lesson and in reproducing from memory sentences previously read. (One unit).

2. The second year's work should comprise the reading of 150 to 200 pages of literature in the form of easy stories and plays, practice in translating into German the substance of short and easy selected passages, and continued drill upon the rudiments of grammar. (One unit).

3. Advanced work should include in addition to the two courses above, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving sometimes orally and sometimes in writing abstracts, paraphrases or reproductions from memory of selected portions of the matter read; also grammatical drill upon the more technical points of the language. (One unit).

### HISTORY

The candidate will be expected to have acquired such general knowledge of each field as may be acquired by the study of an accurate text-book of not less than three hundred pages, with special attention to the comparison of historical characters, periods and events, and, in general, the exercise of judgment as well as of memory.

#### 1. Ancient History

Comprising Oriental and Greek History to the death of Alexander, and Roman History to 800 A. D., with due reference to Greek and Roman life, literature and art. (One unit).

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\*The admission requirements in German are those recommended by the Modern Language Association of America.

**2. Mediaeval and Modern History**

From the death of Charlemagne to the present time. (One unit).

**3. English History**

With due reference to social and political development. (One-half or One unit).

**4. American History**

With special stress upon the national period, and Civil Government. (One unit).

### MATHEMATICS

Elementary Algebra and Plane Geometry are required for admission to all courses; the other subjects are optional, unless otherwise indicated.

**1. Elementary Algebra**

Algebra through Quadratics. The points to be emphasized are: Rapidity and accuracy in performing the four fundamental operations, factoring and its use in finding the greatest common factor and the lowest common multiple, radicals, the solution of linear equations containing one or more unknowns, the solution of quadratic equations, and the statement and solution of problems. (One unit).

**2. Plane Geometry**

The usual theorems and the constructions of good text-books. Attention should be paid to the solution of original exercises and numerical problems and to the subject of loci. It is desirable that a short course in practical Geometry should precede the study of formal Geometry. (One unit).

**3. Solid Geometry**

The usual theorems and the constructions of good text-books. Attention should be paid to the solution of original exercises and numerical problems and to the subject of loci. (One-half unit).

**4. Intermediate Algebra**

Theory of quadratic equations, remainder, theorem, radicals with equations involving them, imaginary and complex numbers, ratio and proportion, variation, arithmetic and geometric progressions and graphs. (One-half unit).

**5. Advanced Algebra**

This includes permutations and combinations, the binominal theorem for positive integral exponents, logarithms, convergency and inequalities. (One-half unit).

## 6. Trigonometry

Plane Trigonometry as presented in the best modern text-books. Especial attention should be paid to accuracy, neatness and the proper arrangement of the work. (One-half unit).

## NATURAL SCIENCES

### Physics

One year's daily work in Physics, of which one-third should be laboratory work. The student should possess a thorough knowledge of the elementary principles of mechanics, heat, light, sound, electricity and magnetism, as presented in such text-books as Millikan and Gale or Carhart and Chute. Note-books on the work done in the laboratory certified by the instructor, must be presented at the time of entrance. (One unit).

### Chemistry

One year's daily work in Chemistry, of which one-third should be laboratory work. The student should possess a thorough knowledge of the general laws and theories of chemistry and should be familiar with the occurrence, preparation and properties of the common elements and their compounds as presented in such text-books as McPherson and Henderson, Storer and Lindsey or Remsen. Note-books on the work done in the laboratory, certified by the instructor, must be presented at the time of entrance. (One unit).

### Zoology

One year's daily work in Zoology as presented in the text-books of Linville and Kelly, Jordan or Kellogg, with work in the laboratory and the field. A note-book on the work in the laboratory and the field, certified by the instructor, must be presented at the time of entrance. (One unit).

### Botany

One year's daily work in Botany as presented in Bergen, Atkinson or Coulter. A note-book, certified by the instructor, describing the work done in the laboratory and the field, must be presented at the time of entrance. (One unit).

### General Biology

A combined course in Botany, Zoology and Physiology, extending through the year, as presented in Hunter's "Essentials of Biology," or an equivalent text. A note-book on the work in the laboratory and the field, certified by the instructor, must be presented at the time of entrance. (One unit).

**Physical Geography**

One year's daily work in Physical Geography as treated in the text-books of Tarr, Davis or Dryer, with training in the laboratory and the field. Note-books on the work in the laboratory and the field, certified by the instructor, must be presented at the time of entrance. (One unit).



## DEGREES

The following degrees are conferred:

A.B., Bachelor of Arts;

B.S., Bachelor of Science;

Ph.B., Bachelor of Philosophy.

The A.B. degree is conferred if the candidate's course has included two years of college Latin.

The B.S. degree is conferred on one who has concentrated his studies, particularly during the last two years of college, on Sciences or Mathematics.

The Degree of Bachelor of Philosophy may be conferred on a student whose course has not included the two years of college Latin required for the A.B. degree, nor the work in Science or Mathematics requisite for the B.S. degree, but who has met all other requirements in prescribed subjects and offers electives previously approved by his advisers and the Dean of the college.

The conditions for the Bacalaureate degrees are the following:

1. The satisfactory completion of the four years' course leading to the degree for which the student is a candidate.

2. A written thesis approved by the Dean of the College and presented on or before April 5th of the year in which the degree is expected to be conferred.

3. All work in order to be accepted in fulfillment of any requirement for the degree must be completed with an average grade of C or over, totalling 128 credit points.

4. A fee of ten dollars payable in advance.

All applicants for a degree should file their application and present all their credits on or before the 15th of April.

## COMBINED COURSES

Combined courses permit students who prove themselves to be above the average in ability and achievement to unite, as far as can be, the liberal training of a course in the College of Arts and Science, with the technical training of the professional colleges of the University.

Students desiring to take a combined course should so inform the Dean of the College of Arts and Science at the beginning of the freshman year.

In general, it may be stated that a student who has completed without conditions the Junior year in the College of Arts and Science including the requirements for a bachelor's degree, may transfer to a professional school of Marquette University and there complete a year of work which will, under certain conditions, be counted in lieu of his senior year in the College of Arts and Science.

A full year of residence in the College of Arts and Science and the completion of thirty-two semester hours of work is required of all students who obtain a degree from that college, and time spent or work done in a professional school can not be counted toward meeting these requirements. Not more than thirty-two semester hours of professional work may be counted toward a bachelor's degree in the College of Arts and Science.

### Arts and Medicine

#### 1. B.S. (in Medicine) and M.D.

A student who has been in residence in the College of Arts and Science for at least one year, who has completed two full years of work (64 semester hours and 64 credit points), including the prescribed subjects for the B.S. degree as given on page 55, and has completed the requirements for admission to the School of Medicine may transfer to that school and receive his college degree (B.S.) upon the completion of the fourth year of his medical course.

The completion of this curriculum will ordinarily require two and one-half years or two years and two summer sessions, in the College of Arts and Science. Students whose scholarship is sufficiently high may apply for permission to elect a limited number of extra hours.

## 2. A.B. and M.D.

A student who has been in residence in the College of Arts and Science for at least one year, who has completed three full years of work (96 semester hours and 96 credit points), including the prescribed courses for the A.B. degree as described on page 54, and the requirements for major and minor sequences (page 56), and who has also met the requirements for admission to the School of Medicine, may register both as a student in the College of Arts and Science and in the School of Medicine and during his fourth year may elect studies which apply toward a degree in both schools. Such a student may obtain his bachelor's degree after the completion of the first year of the Medical course. Such students electing courses in the School of Medicine must pay the regular Medical School fees.

### Arts and Law

A student in the College of Arts and Science who has completed three full years of work (96 semester hours and 96 credit points), including the prescribed courses for a bachelor's degree (page 54) and the requirements for major and minor sequences, and who has satisfied the requirement of a year in residence in the College of Arts and Science, may elect courses in the College of Law to the amount of thirty-two semester hours and may thus complete the work for the collegiate bachelor's degree.

### Arts and Dentistry

A candidate for a bachelor's degree who has been in residence in the College of Arts and Science for at least one year, who has completed three full years of work (96 semester hours and 96 credit points) including the prescribed courses for a bachelor's degree (page 54), and the requirements for major and minor sequences, may elect courses in the College of Dentistry of this University while continuing his college registration for the Senior year. The final year of the course in the College of Dentistry counts as the equivalent of the fourth year of the Arts course and during this year the student must maintain a standard equivalent to that required by the College of Arts and Science for graduation. Students electing work in the College of Dentistry pay the fees of that school.

## MASTER'S DEGREE

The degree of Master of Arts may be conferred upon a candidate holding a bachelor's degree from Marquette University

or from another college of recognized standing under the following regulations:

1. One year of residence will be regularly required of all candidates for the master's degree. Two years will be required in the case of an instructor or assistant on half-time appointment. Such a student, if required by his engagements to teach more than five classes a week or to have laboratory work or supervision exceeding ten hours a week, may not receive his master's degree at the end of one year.

2. The candidate must present credits amounting to twenty-four semester hours in approved courses chosen from not more than three departments of study. This work shall embrace one principal subject and two secondary subjects. At least one-half of the credit shall be for work in the principal subject. Purely elementary courses in any department may not be presented. Of the total credits no more than one-half will be accepted from another institution.

3. The candidate must present a thesis on an approved topic pertaining to his principal subject. The subject of this thesis must be filed with the Dean not later than the first Wednesday in December, on a blank form furnished by the office, and the thesis itself must be filed with the Dean not later than the third Saturday of April. It must be printed or typewritten in prescribed form and a copy shall be furnished to the University Library.

4. If the candidate is pursuing, or has completed, one of the combined courses leading to both the degree of Bachelor of Arts or of Science and a degree from a professional school, he must present the full twenty-four hours of credit required by paragraph 2. If, however, the candidate has received his degree in the College of Arts and Science before entering upon his professional studies, he may meet the requirement by completing, besides the maximum prescribed professional course, twelve semester hours of work of an advanced character in an approved field, and a thesis in addition.

5. A bachelor of Marquette University may become a non-resident candidate for the master's degree after having completed one-half year (or two summer sessions) of graduate work, twelve semester hours, in residence, but in such case the remaining half-year of work if done out of residence, must be extended over at least two semesters. A non-resident candidate for a master's degree is required, at stated times, to make

written reports on the progress of his work. Graduates of other institutions are not admitted as non-resident candidates for a degree. Exception is made in the case of members of the staff and high school teachers residing and employed in Milwaukee who have spent half of their time in graduate study throughout a year at some other approved institution. They may complete the requirements for the master's degree in a year of residence here, spending half their time in study. The candidates must take examinations in the work done elsewhere as well as in that done at this University.

6. A student in the College of Arts and Science who during the second semester of his senior year devotes time to the continuation of his major subject, or to other advanced topics approved by the Council on Graduate Studies, in excess of the total requirement of one hundred and twenty-eight semester hours for a bachelor's degree may, for such work, receive credit toward a masters' degree in his secondary subject; but in no case will the master's degree be conferred in less than one year after the conferring of the bachelor's degree.

7. The final examination of the candidates for the master's degree takes place at the University at an appointed date, about May 20. The examination is conducted by a committee composed of the head of the department in which the student has done his principal work and not less than four other members of the Faculty, at least two of whom are from departments other than that of the student's principal subject. The committee in the case of a candidate doing work in a professional school shall include at least two members of the Faculty of the College of Arts and Science.

## REQUIREMENTS FOR GRADUATION

### I.

#### AMOUNT OF WORK

In order to receive a degree, a student is required to complete one hundred and twenty-eight semester hours of work and to maintain an average grade of C.

The requirements for graduation include:

1. A certain amount of prescribed work, especially in the freshman and sophomore years;
2. A major and two minors, to be taken chiefly during the junior and senior years; and

3. Free electives, which afford opportunity either for broader culture or for greater specialization as the student may choose.

4. At least the senior year in residence, at Marquette University.

The semester hour is the unit or standard for computing the amount of a student's work. A semester hour is defined as one lecture, recitation or class exercise, one hour in length per week, for one semester. Two hours of laboratory work are equivalent to one recitation hour. Two hours of preparation on the part of the student is required for each hour of lecture or recitation.

Regular work for Freshmen is sixteen hours per week. For all others it may be from fifteen to eighteen hours. No candidate for a degree will be allowed to register for fewer than twelve hours of work.

No Freshman may register for more than sixteen hours without special permission of the faculty, and such registration is not allowed to any student in his first semester of residence.

In case of students of longer attendance, advisers may grant permission to take studies up to eighteen hours a week after the standing of the student in each study of the semester is examined and found to be B (85) or over.

No credit will be granted any student for more than forty hours in any department, including credits earned in the freshman year, except:

1. When a student is writing a thesis, he may count in addition to the forty hours, the hours of the course in which he does his thesis work.

2. In the department of English, a student may take forty hours in addition to Rhetoric 1—2.

## II.

### CHARACTER OF WORK

#### Subject Requirements

##### (a) Prescribed subjects for the A.B. Degree

| Credit hrs.           |    | Credit hrs.                 |    |
|-----------------------|----|-----------------------------|----|
| English .....         | 12 | Mathematics .....           | 6  |
| Latin .....           | 16 | History .....               | 6  |
| Modern Language ..... | 16 | Philosophy .....            | 16 |
| Science .....         | 8  | Evidences of Religion ..... | 8  |
| Public Speaking ..... | 2  |                             |    |

## (b) Prescribed subjects for the B.S. Degree

|                       |    |                             |    |
|-----------------------|----|-----------------------------|----|
| English .....         | 12 | History .....               | 6  |
| Modern Language ..... | 16 | Philosophy .....            | 16 |
| Science .....         | 16 | Evidences of Religion ..... | 8  |
| Mathematics .....     | 6  | Public Speaking .....       | 2  |

## (c) Prescribed subjects for the Ph.B Degree

|                       |    |                             |    |
|-----------------------|----|-----------------------------|----|
| English .....         | 12 | History .....               | 8  |
| Modern Language ..... | 16 | Philosophy .....            | 16 |
| Mathematics .....     | 6  | Evidences of Religion ..... | 8  |
| Public Speaking ..... | 2  |                             |    |

Students who have received one-half their college credits (64 semester hours) in other institutions must secure before graduation all the prescribed credits except those in science, mathematics, and history. In place of these they may offer such electives as are approved by their advisers and the Dean of the college.

## III.

## QUALITY OF WORK

## Grades

A student's grade of scholarship in each of his subjects is determined by the combined results of examinations and class work.

## Above Passing

- A 93—100, Excellent
- B 85— 92, Good
- C 77— 84, Fair
- D 70— 76, Passed

## Below Passing

- E 60—69, Conditioned
- F 0—59, Failed
- I—Incomplete\*
- X—Absent

These grades are not given out to students by the professors, but are regularly issued from the office of the Dean of the College.

Any student who desires to remove an Incomplete, must first obtain from the Registrar, a blank form for presentation to the instructor in charge of the course. The blank when signed, must be filed with the Registrar *within one week* from the time of the semester examination. A fee of \$1.00 is charged for blanks obtained after the specified time.

\*A student may be reported Incomplete, if some small portion of his work remains unfinished, provided his standing in the course has been of grade C or higher. To secure credit, this work must be completed within one month after the beginning of the following semester; otherwise the course will be recorded as of grade E.

### Credit Points

A candidate for a degree must gain not only the number of hour credits required, but his work must reach a certain standard of excellence. In addition to the 128 hour credits necessary for graduation, each student must earn at least 128 credit points, or an average mark in all subjects of C or better.

For a grade of A in a given course, the student will receive *three* times as many credit points as there are hour credits in any course; for a grade of B, twice as many credit points; for a grade of C, as many credit points as hour credits; while D gives hour credits but no points.

For example: A four-hour course in which the student receives A, gives twelve credit points; if the grade is B, 8 credit points; if C, 4 credit points.

The maximum number of credit points that can be secured by a student is 384; the minimum accepted for graduation is 128.

Candidates for graduation must attend any course of lectures, or any other exercises that have been or may be authorized and equipped by the Faculty, even though such courses receive no value in credits.

### GROUP REQUIREMENTS

A candidate for a bachelor's degree must complete a major in at least one department, and a minor in each of two other departments,

(a) One of which is correlated to the major,

(b) The other, a free or unrestricted minor, to be chosen from another group.

The various subjects of instruction are divided into three groups as follows:

| Group I         | Group II          | Group III   |
|-----------------|-------------------|-------------|
| English         | Economics         | Astronomy   |
| French          | Education         | Biology     |
| German          | History           | Chemistry   |
| Greek           | Philosophy        | Geology     |
| Latin           | Political Science | Mathematics |
| Public Speaking | Sociology         | Physics     |
| Spanish         |                   |             |

N. B.—For the degree of Bachelor of Arts or of Bachelor of Philosophy, the Major study must be selected from Group I or Group II. For the degree of Bachelor of Science the Major study must be selected from Group III.

**Major.** Each student before the end of the Sophomore year must elect courses from some one department, to be known as his Major, which must comprise not less than eighteen semester hours, exclusive of credit earned in Freshman year. Two years of preparatory-school work or one year of college work in any foreign language shall be prerequisite to a Major or a Minor in the same language. In general, no course designated as 1 or its equivalent will be counted for Major or Minor.

A Major may be changed only by the consent of the Dean and of the heads of the departments concerned, and such change will be permitted only upon the distinct understanding that all the courses prescribed in the Major finally chosen shall be completed before graduation.

**Minor.** A Minor consists of not less than twelve hours in one department, exclusive of credit earned in Freshman year. The correlated Minor must be chosen from the same group as the Major; the unrestricted Minor may be chosen from either of the remaining groups.

**Electives.** Courses not taken (a) as prescribed courses and (b) not included in the student's Major and Minor sequences may be chosen as free electives to complete the 128 credits required for graduation.

In the choice of electives, each student must be guided by his prospective work. He must ascertain, moreover, that such courses are open to his class; that he has fulfilled the prerequisites, and that there will be no conflict in the schedule of recitations or laboratory periods.

First year courses in a foreign language will not be accepted for credit towards a degree unless followed by a second year course in the same language.

Elections for the second term must be filed by members of the upper classes with the Dean on or before January 15th, and for the first term on or before May 15th.

## REFERENCE STUDY AND RESEARCH

1. Students taking courses in Philosophy shall prepare and submit *each month* a paper of 2,000 words dealing with the development of some specific topic of the subject matter treated in class.

2. Students taking courses in History and Social Sciences will be required to hand in two papers each semester. These papers are to contain not less than 1,800 words; and at least one of the four papers thus submitted during the year should give unmistakable signs of original research, preferably in some local Catholic subject.

3. All such and other prescribed written assignments will be held to strictly as pre-requirements for graduation, for the fulfillment of which no student will be allowed any extension of time beyond the 15th of April of his Senior year.

## OUTLINE OF COURSES

### BACHELOR OF ARTS

#### Freshman

| First Semester                 | Credit Hrs. | Second Semester               | Credit Hrs. |
|--------------------------------|-------------|-------------------------------|-------------|
| Latin, 1, 9.....               | 4           | Latin, 2, 10.....             | 4           |
| English, 3 .....               | 3           | English, 4 .....              | 3           |
| Science .....                  | 4           | Science .....                 | 4           |
| *Greek, or Mathematics, 1..... | 3           | Greek, or Mathematics, 2..... | 3           |
| †Evidences of Religion .....   | 1           | Evidences of Religion .....   | 1           |
| Public Speaking .....          | 1           | Public Speaking .....         | 1           |
|                                | <hr/> 16    |                               | <hr/> 16    |

#### Sophomore

|                             |          |                             |          |
|-----------------------------|----------|-----------------------------|----------|
| Latin, 3, 11 .....          | 4        | Latin, 4, 12 .....          | 4        |
| History, 1, or Greek.....   | 3        | History, 2, or Greek .....  | 3        |
| Modern Language .....       | 4        | Modern Language .....       | 4        |
| English, 5 .....            | 3        | English, 6 .....            | 3        |
| Evidences of Religion ..... | 1        | Public Speaking .....       | 1        |
| Public Speaking .....       | 1        | Evidences of Religion ..... | 1        |
|                             | <hr/> 16 |                             | <hr/> 16 |

\*Students taking Greek must complete two years in that subject. They may omit Mathematics in Freshman and postpone History of Sophomore to the Junior Year.

†The prescribed courses in Evidences of Religion will be required only of Catholic students.

**Junior**

| First Semester                | Credit Hrs. | Second Semester               | Credit Hrs. |
|-------------------------------|-------------|-------------------------------|-------------|
| Logic, 1 .....                | 3           | Psychology, 4 .....           | 3           |
| Psychology, 3 .....           | 3           | Modern Language .....         | 4           |
| Modern Language .....         | 4           | Evidences of Religion .....   | 1           |
| Evidences of Religion .....   | 1           | Major and Minor Electives ... | 8           |
| Major and Minor Electives ... | 5           |                               | —           |
|                               | 16          |                               | 16          |

**Senior**

|                              |    |                              |    |
|------------------------------|----|------------------------------|----|
| Metaphysics, 6 .....         | 3  | Ethics, 7 .....              | 4  |
| Evidences of Religion .....  | 1  | Evidences of Religion .....  | 1  |
| Major and Minor Electives... | 12 | Major and Minor Electives... | 12 |
|                              | 16 |                              | 17 |

**BACHELOR OF SCIENCE****Freshman**

|                             |    |                            |    |
|-----------------------------|----|----------------------------|----|
| English, 3 .....            | 3  | English, 4 .....           | 3  |
| Mathematics, 1 .....        | 3  | Mathematics, 2 .....       | 3  |
| Modern Language .....       | 4  | Modern Language .....      | 4  |
| Science .....               | 4  | Science .....              | 4  |
| Evidences of Religion ..... | 1  | Evidences of Religion..... | 1  |
| Public Speaking .....       | 1  | Public Speaking .....      | 1  |
|                             | 16 |                            | 16 |

**Sophomore**

|                             |    |                             |    |
|-----------------------------|----|-----------------------------|----|
| Modern Language .....       | 4  | Modern Language .....       | 4  |
| Science .....               | 4  | Science .....               | 4  |
| History, 1 .....            | 3  | History, 2 .....            | 3  |
| Evidences of Religion ..... | 1  | Evidences of Religion ..... | 1  |
| Public Speaking .....       | 1  | Public Speaking .....       | 1  |
| Elective .....              | 3  | Elective .....              | 3  |
|                             | 16 |                             | 16 |

**Junior**

|                               |    |                               |    |
|-------------------------------|----|-------------------------------|----|
| Logic, 1 .....                | 3  | Psychology, 4 .....           | 3  |
| Psychology, 3 .....           | 3  | English, 6 .....              | 3  |
| English, 5 .....              | 3  | Evidences of Religion .....   | 1  |
| Evidences of Religion .....   | 1  | Major and Minor Electives ... | 9  |
| Major and Minor Electives ... | 6  |                               | —  |
|                               | 16 |                               | 16 |

## Senior

| First Semester                | Credit Hrs. | Second Semester               | Credit Hrs. |
|-------------------------------|-------------|-------------------------------|-------------|
| Metaphysics, 6 .....          | 3           | Ethics, 7 .....               | 4           |
| Evidences of Religion .....   | 1           | Evidences of Religion .....   | 1           |
| Major and Minor Electives ... | 12          | Major and Minor Electives ... | 12          |
|                               | —           |                               | —           |
|                               | 16          |                               | 17          |

## BACHELOR OF PHILOSOPHY

## Freshman

|                             |    |                             |    |
|-----------------------------|----|-----------------------------|----|
| English, 3 .....            | 3  | English, 4 .....            | 3  |
| Foreign Language .....      | 4  | Foreign Language .....      | 4  |
| History 1 .....             | 3  | History 2 .....             | 3  |
| Evidences of Religion ..... | 1  | Evidences of Religion ..... | 1  |
| Public Speaking .....       | 1  | Public Speaking .....       | 1  |
| Elective .....              | 4  | Elective .....              | 4  |
|                             | —  |                             | —  |
|                             | 16 |                             | 16 |

## Sophomore

|                             |        |                            |        |
|-----------------------------|--------|----------------------------|--------|
| Foreign Language .....      | 3 or 4 | Foreign Language .....     | 3 or 4 |
| English 5 .....             | 3      | English 6 .....            | 3      |
| History .....               | 3      | History .....              | 3      |
| Evidences of Religion ..... | 1      | Evidences of Religion..... | 1      |
| Public Speaking .....       | 1      | Public Speaking .....      | 1      |
| Elective .....              | 4 or 5 | Elective .....             | 4 or 5 |
|                             | —      |                            | —      |
|                             | 16     |                            | 16     |

## Junior

|                               |    |                               |    |
|-------------------------------|----|-------------------------------|----|
| Logic 1 .....                 | 3  | Psychology 4 .....            | 3  |
| Psychology 3.....             | 3  | Evidences of Religion .....   | 1  |
| Evidences of Religion .....   | 1  | Major and Minor Electives.... | 12 |
| Major and Minor Electives.... | 9  |                               | —  |
|                               | —  |                               | 16 |
|                               | 16 |                               |    |

## Senior

|                               |    |                               |    |
|-------------------------------|----|-------------------------------|----|
| Metaphysics, 6 .....          | 3  | Ethics, 7 .....               | 4  |
| Evidences of Religion .....   | 1  | Evidences of Religion.....    | 1  |
| Major and Minor Electives.... | 12 | Major and Minor Electives.... | 12 |
|                               | —  |                               | —  |
|                               | 16 |                               | 16 |

## COLLEGE REQUIREMENTS FOR ADMISSION TO A MEDICAL SCHOOL

NOTE: Students electing to forego the advantages of training to be secured in the four years of college leading to a degree, must present a written statement from their parents or guardians attesting their purpose to pursue a medical course after completing the necessary collegiate work.

The minimum requirement for admission to a medical school as prescribed by the Council on Medical Education of the American Medical Association\* is sixty semester hours of collegiate work extending through two years in an approved college. The subjects included in this requirement must be in accordance with the following schedule:

| Required Subjects:                      | Semester Hrs. |
|-----------------------------------------|---------------|
| Chemistry .....                         | 12            |
| Physics .....                           | 8             |
| Biology .....                           | 8             |
| English composition and literature..... | 6             |
| Other non-science subjects .....        | 12            |
| A modern foreign language .....         | 6-12          |

### Subjects Strongly Urged:

|                                                                  |     |
|------------------------------------------------------------------|-----|
| Advanced Botany or Advanced Zoology .....                        | 3-6 |
| Psychology .....                                                 | 3-6 |
| Advanced Mathematics including Algebra and<br>Trigonometry ..... | 3-6 |
| Additional Courses in Chemistry .....                            | 3-6 |

### Other suggested Electives:

English( additional), Economics, History, Sociology, Political  
Science, Logic, Mathematics, Latin, Greek, Drawing.

## SUGGESTIONS REGARDING INDIVIDUAL SUBJECTS

(a) **Chemistry.** Twelve semester hours required, of which at least eight semester hours must be in general inorganic chemistry, including four semester hours of laboratory work. In the interpretation of this rule, work in qualitative analysis may be counted as general inorganic chemistry. The remaining four semester hours must consist of work in organic chemistry.

\*The entrance requirements of certain medical schools in various parts of the country exceed the minimum requirements for admission outlined above. Those preparing to enter a particular medical school should acquaint themselves with the detailed entrance requirements prescribed by the medical school in question and prepare accordingly.

(b) **Physics.** Eight semester hours required, of which at least two must be laboratory work. It is urged that this course be preceded by a course in trigonometry.

(c) **Biology.** Eight semester hours required, of which four must consist of laboratory work. This requirement may be satisfied by a course of eight semester hours in either general biology or zoology, or by courses of four semester hours each in zoology and botany, but not by botany alone.

(d) **English Composition and Literature.** The usual introductory college course of six semester hours, or its equivalent, is required.

(e) **Non-science Subjects.** Of the sixty semester hours required as the measurement of two years of college work, at least eighteen, including the six semester hours of English, should be in subjects other than the physical, chemical or biological sciences.

(f) **A Modern Foreign Language.** A reading knowledge of a modern foreign language is required. In case a reading knowledge of one language is obtained by six semester hours of college work, another six semester hours may be well spent in taking the beginner's course in some other language; if this is followed up by a systematic reading of scientific prose, a reading knowledge of a second language may be readily acquired. When a student spends more than two years in college he may well spend twelve semester hours of his college work in a second language. In the absence of college credit, the foreign language requirement may be met by demonstrating an ability to read and translate fluently French, German, Spanish, or some other approved language.

### PREMEDICAL COURSE

Students preparing to enter Marquette University School of Medicine will be required to complete the following course before they will be admitted to the Freshman class of the School of Medicine:

#### Freshman

| First Semester                | Credit Hrs. | Second Semester               | Credit Hrs. |
|-------------------------------|-------------|-------------------------------|-------------|
| Chemistry 1.....              | 5           | Chemistry 2.....              | 5           |
| Mathematics 1.....            | 3           | Mathematics 2.....            | 3           |
| English 1.....                | 3           | English 2.....                | 3           |
| Botany 1.....                 | 4           | Zoology 1.....                | 4           |
| Electives (French-German) ... | 4           | Electives (French-German).... | 4           |
| One to be chosen              |             | One to be chosen              |             |

## Sophomore

| First Semester                   | Credit Hrs. | Second Semester                  | Credit Hrs. |
|----------------------------------|-------------|----------------------------------|-------------|
| Chemistry 7a.....                | 3           | Chemistry 7b.....                | 3           |
| Zoology 2.....                   | 4           | Zoology 3.....                   | 4           |
| Philosophy 3.....                | 3           | Philosophy 4.....                | 3           |
| Physics 1-2.....                 | 4           | Physics 1-2.....                 | 4           |
| Electives (French-German) 3 or 4 |             | Electives (French-German) 3 or 4 |             |
| One to be chosen                 |             | One to be chosen                 |             |

## CURRICULUM

The college course extends through four years and embraces instruction in the Departments of Philosophy, Economics, Sociology, Education, Language, Literature, History, Science and Mathematics. The aim of the course is to give the student a liberal education, which will train and develop all the powers of the mind, and will cultivate no one faculty to an exaggerated degree at the expense of the others. The college ideal is not to foster specialization, but to cultivate the mind, to build up and strengthen true character, and to impart that accuracy of thought and reasoning and that breadth of view which must ever be the foundation as well of more advanced scholarship as of eminence in the professions or other stations of life.

It is presumed that a man of fair capacity who has conscientiously followed this curriculum under capable professors will be possessed of trained and cultivated faculties and will have a considerable amount of positive knowledge in every department of learning. He will thus be in touch and intelligent sympathy with progress in every field of intellectual activity, and be saved as far as possible from narrowness and superficiality. Such an education serves, it is believed, as the best foundation for special training in any branch which the student, with his mind now mature and disciplined, may decide to take up.

## DEPARTMENTS AND COURSES

1. As a rule, odd numbers indicate first semester courses; even numbers, second semester courses.
2. In all (a) beginning and (b) year courses both semesters must be completed for credit toward a degree.
3. The Faculty reserves the right to refuse to offer a course listed below for which there is not a sufficient number of applicants.

## ANCIENT LANGUAGES

Professor Roemer; Mr. Sweeney

## Greek

**A-B. Elementary Greek.** The course is intended for those who enter without Greek. Benner-Smyth, *Beginners' Greek Book*; Xenophon, *Anabasis*; prose composition based on Xenophon.

Four hours credit.

**1. Homer.** Selected portions of the *Iliad* or *Odyssey*; Homeric Dialect; outline of Greek epic poetry. First semester.

Three hours credit.

**2. Plato.** The *Apology* and one of the *Dialogues*. New Testament, selections. Second semester.

Three hours credit.

**3. Demosthenes.** *Philippics*; *The Crown*; history of the development of Greek oratory. First semester.

Three hours credit.

**4. Sophocles; Aeschylus.** Sophocles, *Antigone* or *Oedipus Tyrannus*; Aeschylus, *Prometheus*, with lectures on Greek drama. Second semester.

Three hours credit.

**5. Euripides; Aristophanes.** Euripides, *Medea* or *Alcestis*; Aristophanes, *Frogs* or *Clouds*, with lectures on the Greek comedy.

Three hours credit.

**6. Lyric and Pastoral Poets.** Pindar and Theocritus. Pindar selected *Epinicia*; Theocritus, selected *Idyls*. Selections from the *Greek Anthology*.

Three hours credit.

**7. Herodotus.** Selections from Books I, VII, VIII and IX. Lectures on the early logographers and the beginnings of Greek prose.

Three hours credit.

**8. Thucydides.** Selections, especially the *Sicilian Expedition*, Books VI-VIII. Lectures on the Greek historians and historical sources.

Three hours credit.

**9-10. Prose Composition.** Practice in the writing of simple Greek. Both semesters.

Two hours credit.

**11-12. Prose Composition.** An advanced course. Both semesters.

Two hours credit.

**13. History of Greek Literature.** A general course in Greek Literature. One semester.

Two hours credit.

### Latin

**A-B. Elementary Latin.** Daily practice in oral and written themes: essentials of syntax. First semester. Caesar *De Bello Gallico*, four books; thorough study of syntax with frequent themes. Bennett's *New Latin Prose Composition*. Second semester.

Eight hours credit.

**C. Cicero; Sallust.** Orations against Catiline I-III; selections from *De Senectute* and the *Bellum Catilinae*. Themes from Bennett's *New Latin Prose Composition*. Four hours credit.

**D. Vergil; Cicero.** *Aeneid*, translation and interpretation with studies in Greek and Roman mythology; Cicero, *Pro Lege Manilia*. Themes as in Course C. Four hours credit.

The above courses A, B, C, and D, are intended for students who enter with insufficient preparation in Latin, but will not be accepted in fulfillment of the required college Latin.

1. **Vergil; Horace.** *Aeneid* VII-XII, selections; Horace, *Ars Poetica*. Selections from Christian Hymnology. First semester. Three hours credit.

2. **Livy.** Book XXI; Book XXII, selections; a study of Livy's style, elements of change from the prose of the Ciceronian age. Second semester. Three hours credit.

3. **Horace; Cicero.** Horace, selected Odes and Epodes; Cicero, *Pro Milone*, with special references to its rhetorical and argumentative qualities. *De Amicitia* or *De Senectute*. First semester. Three hours credit.

4. **Horace; Tacitus.** Horace, selected Epistles and Satires; a study of the chief characteristics of Roman satire; Horace's philosophy of life; Tacitus, *Agricola* and *Germania*; the prose of the empire. Second semester. Three hours credit.

5. **Cicero; Juvenal.** Cicero, *Quaestiones Tusculanae*, with a study of his positions as a philosopher; Juvenal, selected Satires. One semester. Three hours credit.

6. **Plautus; Terence.** Selected plays. One semester. Three hours credit.

7. **Pliny; Seneca.** The letters of Pliny the Younger, with a study of literary and social conditions at the end of the first century after Christ; Seneca, selected letters. One semester. Three hours credit.

8. **Roman Political Institutions.** The king, the gentes, the patricians, the clients; the rise and growth of the Republican Constitu-

tion, the senate, the magistracies, the people, the assemblies, etc. One semester. Two hours credit.

**9. Latin Composition.** Principles of Latin idiom and style. Kleist's Aids to Latin Composition. Required of students taking Courses 1 and 2. First semester. One hour credit.

**10. Latin Composition.** A continuation of Course 9. Second semester. One hour credit.

**11. Latin Writing.** Advanced course. Translation of selected passages from English classic authors. Kleist's Practical Course in Latin Composition. Intended to accompany Courses 3 and 4. First semester. One hour credit.

**12. Latin Writing.** A continuation of Course 11. Second semester. One hour credit.

**13. Ecclesiastical Latin.** Hymns and homilies, selected from the Breviary and other sources. One semester. Two hours credit.

**14. History of Roman Literature.** A general course in Roman Literature. One semester. Two hours credit.

## BIOLOGY

(See courses described under Botany and Zoology.)

## BOTANY

Professor Steil

**1. General Botany.** A general and introductory course in botany, fundamental for any advanced courses in botany, and constituting, with Zoology 1, a year of biological science. This course includes a study of the plant as a whole, the gross and minute structure of each of its organs, a study of the life processes of the plant and its relation to its environment; the study of the cell and cell and nuclear division; a complete evolutionary series and special studies of flowers, fruits, seeds, and seedlings. First semester. Four hours credit.

**2. Advanced General Botany.** A course intended for those who wish a broad knowledge of the subject, and those who wish to teach the subject in the high school. This course with botanical technique and the teachers' course constitutes a minor in botany. More emphasis is placed on physiology than in Botany 1, a more detailed morphological and histological study of plants, many forms being studied. Taxonomy of the seed plants is given during the latter part

of the course, so that a student may become acquainted with a large number of our common wild plants. Prerequisite: Botany 1. Second semester. Four hours credit.

**3. Cytology with Special Reference to Heredity.** A thorough course in the plant cell. Lectures, reading, laboratory studies on the cell structure and cell-physiology. Prerequisites: Botany 1 and Zoology 1. First semester. Four hours credit.

**4. Botanical Technique.** This course is intended for those who wish to become acquainted with methods of collecting and preserving botanical material, with various methods of fixing, sectioning, and staining botanical material, including the preparation of slides. Special emphasis will be placed upon the preparation of material for class use. Prerequisites: Botany 1. Second semester. One hour credit.

**5. Identification and Classification of Trees.** Open to all students. No prerequisites. A study of our common trees. Field, laboratory, and lecture course. Second semester. One hour credit.

**6. Teachers' Course in Botany.** This course is intended for those who wish to teach the subject of botany in the high school. All persons who are planning to teach botany are advised to fulfill the requirements of the botany minor and to take at least one semester of zoology. Such topics will be considered in the course as the equipment of the laboratory, courses adapted to the high school, the text book and laboratory manual, useful reference books, special methods of presenting the various subjects in the course, methods of conducting field work, and preparation of material for the class room. Second semester. Two hours credit.

## CHEMISTRY

Professors Bauer and Gilbert; Mr. Singh

**1. Inorganic Chemistry.** The fundamental laws and theories and the chemistry of the non-metallic elements. First semester. Two hours lecture, one hour quiz, four hours laboratory a week. Five hours credit.

**2. Inorganic Chemistry.** Continuation of the development of chemical theory with the chemistry of the metallic elements. Laboratory course consists of qualitative analysis. Second semester. Two hours lecture, one hour quiz, four hours laboratory a week. Five hours credit.

**3. Advanced Qualitative Analysis.** More complex compounds and the rarer elements will be studied. First or second semester. Six

hours of laboratory a week.

Three hours credit.

**4. Quantitative Analysis.** Elementary gravimetric and volumetric analysis. The fundamental operations, use and care of apparatus. Emphasis will be placed on gravimetric work. Six hours of laboratory a week. First semester. Prerequisite: Course 2.

Three hours credit.

**4a. Quantitative Analysis.** More complicated problems. Emphasis on volumetric analysis. Six hours of laboratory a week. Second semester. Prerequisite: Course 4.

Three hours credit.

**4b. Advanced Quantitative Analysis.** Analytical methods of value in the industries will receive particular attention. The student will have opportunity to choose some field such as ore analysis, alloy analysis, etc., in which to do the bulk of his work. First or second semester. Six hours of laboratory a week. Prerequisite: Course 4a.

Three hours credit.

**7a. Organic Chemistry.** Deals with the aliphatic compounds. The laboratory work includes tests, simple preparations and some exercises in elementary quantitative analysis. First semester. Two hours lecture, one hour quiz, three hours laboratory a week.

Three hours credit.

**7b. Organic Chemistry.** Concludes the discussion of the aliphatic compounds and deals with the compounds of the aromatic series. Laboratory work consists of advanced preparations. Second semester. Two hours lecture, one hour quiz, three hours laboratory a week.

Three hours credit.

**9-10. Physical Chemistry.** A general survey of the subject. Especial attention will be given to topics of interest to medical students. Both semesters. Two hours of lecture and three hours laboratory a week. Prerequisite: Course 2.

Six credit hours.

**11. Advanced Inorganic Chemistry.** The work covered in the elementary course is briefly reviewed and amplified from the point of view of the periodic law. The important theories in this field are discussed. First or second semester. Two hours lecture a week. Prerequisite: Course 4a.

Two hours credit.

**12. Advanced Organic Preparations.** A continuation of the laboratory work of the elementary course. More difficult preparations are taken up. First or second semester. Six hours of laboratory a week. Prerequisite: Course 7a and 7b.

Three hours credit.

**13. Water Analysis.** A chemical examination of potable waters for all important constituents. First or second semester. Two hours

lecture, four hours laboratory a week. Prerequisite: Course 4a.

Four hours credit.

**14. Chemistry of Coal Tar Dyes.** The various classes of dyestuffs and their intermediates are studied. The laboratory work will include preparation of the representative dyes and intermediates, their analysis, methods of dyeing, and tests for fastness. First or second semester. Two hours lecture, four hours laboratory a week. Prerequisite: Courses 4a, 7a, 7b.

Four hours credit.

**15. History of Chemistry.** A brief survey. Emphasis will be placed on the development of important theories during the last century. First or second semester. Two hours lecture a week. Prerequisite: Courses 4a, 7a, 7b.

Two hours credit.

## ECONOMICS

Professor Roche

**1. Economics.** This course is designed to give a practical working knowledge of the fundamental underlying principles of modern business. Beginning with a characterization of modern industrial organization, the student is led to an analysis of the problems of production, including trusts and industrial combinations, value as it arises in the exchange of goods, human wants and their satisfaction in consumption. Lecture three hours a week. Both semesters.

Six hours credit.

**2. Economic History of the United States.** The development of colonial institutions; the public land problems; agricultural development; growth of slavery; internal improvement; finance; development of banking; combinations of labor and capital; growth of transportation facilities; natural resources; large-scale manufacturing; commercial expansion; education and the general social life. Lecture three hours a week. Second semester. Three hours credit.

**3. Economic Resources.** Geography of production; a study of geographical conditions and their influence on the commercial and industrial development of man; a descriptive study of the leading American industries; discussion of the products of the farm, forests, mines, quarries, etc. Lecture three hours a week. First semester.

Three hours credit.

**4. Foreign Trade.** A course in commercial organization in foreign trade. A survey of the foreign trade of the United States; a study of the opportunities for foreign trade; a detailed examination of the facilities and methods used in conducting import and export trade and of the activity of the Government in promoting such trade. Lecture two hours a week. First or second semester.

Two hours credit.

## EDUCATION

Professors Reiner and Deglman

**1. Philosophy of Education.** The principles underlying all Christian education, and the relative values of different educational agencies and curricula when tested by these principles. Lectures, discussions, required reading and reports. Three hours credit.

**2-3. General Psychology. (Philosophy 3-4)** Beginning with an explanation of the cerebro-spinal nervous system, this course leads on to the study of the phenomena of sensuous and rational life, and then treats of the origin, nature and destiny of the human soul, and the union of soul and body. Must accompany or precede Course 7. Required for Juniors. Six hours credit.

**4. Educational Psychology.** A study of established psychological processes and procedure; prevalent errors in psychology and their influence on recent and contemporary educational theory and practice; physical growth and mental development; the psychology of adolescence; instinct heredity and individuality; attention, interest, appreciation, association, memory and habit, and their application to the problems of education and the class room. Courses 5-6 prerequisite and essential. Three hours credit.

**5. History of Ancient and Mediaeval Education.** The development of educational ideals, systems, institutions and methods of early times, through Jewish, Greek, Roman and early Christian civilization, down to the Renaissance. Two hours credit.

**6. History of Modern Education.** The Renaissance and humanistic studies; effects of the Reformation; Catholic reaction; the Jesuits and higher education, a survey of systems, movements and tendencies in educational ideals and methods during the sixteenth, seventeenth, eighteenth and nineteenth centuries; recent and contemporary educational thought and tendencies in England, France and Germany, and especially in the United States. Lectures, readings and investigations of special problems. Two hours credit.

**7. History of Education.** A brief survey of educational theory, institutions, and practice during ancient and modern times with special emphasis on the more recent educational movements in Europe and America. Three hours credit.

**8. School Management.** The meaning and aim of the educative process and the function of this aim in class-room organization and control; motivation of school work; routine procedure; grading and promoting; the real function and character of the curriculum; assignments, study and recitations; the effective measurements of school

processes and products; the influence of personality upon the professional effectiveness of the teacher; professional ethics.

Three hours credit.

**9. High School Administration.** An investigation of the problems, aim, organization and procedure in the administration and supervision of secondary schools, public and private; the relationship of superintendent, principal, teachers, parents and pupils; certification of teachers, rating of teachers and teaching efficiency; school surveys, standardizing agencies, processes and progress; school construction, equipment and control.

Three hours credit.

**10. Principles of Secondary Education.** The development of secondary education in America and in other countries; its relations to elementary and higher education; program of studies, criteria of subject values; history, purposes, organization and methods of the Junior high school; vocational and industrial education; organization and reconstruction of curricula with reference to the various needs of typical communities and present day life; textbooks and apparatus; the psychology of high school subjects.

Three hours credit.

**11. Observation of Expert Teaching.** A systematic observation of classes taught in Marquette University High School and a written report of such observations according to topics outlined by the head of the department.

First semester. One hour credit.

**12. Practical Work in Teaching.** During the second semester each student will prepare thirty recitations and teach them in Marquette University High School under the supervision of a critic teacher.

Second semester. One hour credit.

## ENGLISH

Professors Doyle and Conners; Mr. Clarke, Mr. Herrmann, Mr. McCarthy, Mr. C. McDonald, Mr. J. McDonald, Mr. Regan, Mr. Sweeney

**1. Rhetoric and Composition.** A course in the essentials of Rhetoric and in the various modes of composition. Required of Freshmen who are deficient in the theory or practice of correct English.

Three hours credit.

**2. Advanced Rhetoric.** A systematic course based on textbooks, in the theory of rhetoric, the study of style, and the requisites of the various species of writing. Required of Freshmen, as in Course 1.

Three hours credit.

**3. Poetry.** Theories of English prosody: Saintsbury, Patmore, Lanier, Bridges, Hopkins. The part played by Latin Christian hymns in determining the metrical principles of modern languages. Italian

influences in Elizabethan and Caroline verse. French influences in Restoration verse. The influence of Mallory and of the ballads on late poetry. The Romantic revival: Wordsworth and Coleridge. The Pre-Raphaelites. The Catholic revival: Patmore, Francis Thompson and others; contemporary Catholic poets. The poetry of the twentieth century. Free verse. One semester. Three hours credit.

**4. The Short Story.** The theory and technique of the short story; its development and various kinds. Reading and appreciation of short stories, and composition in the form. Three hours credit.

**5. The English Novel.** The principal purpose of this course is to study the technique of the novel and the various schools of fiction and their tendencies, with special attention to ethical and literary value. The historical development will be briefly surveyed.

Three hours credit.

**6. Oratory.** The theory of oratory: analysis and study of oratorical masterpieces; historical study of the great orators. The preparation of briefs, the composition and delivery of short addresses, speeches for occasion, debates, and at least one formal oration, will be required.

Three hours credit.

**7. The Technique of the Drama.** The theory of the drama will be studied by means of lectures and assignments in its history and development; examples of the different forms will be analyzed; composition in dialogue, dramatic sketches, playlets, scenarios, and at least one complete drama will be required.

Three hours credit.

**8. Shakespeare.** Shakespeare's life, influence; sources of his drama; an acquaintance by reading and assignments with the Shakespearean literature of criticism; a study of the chief plays, especially in comparison with those of other dramatists.

Three hours credit.

**9. The Modern Drama.** This course will be confined to English and American drama, though some of the continental influences will be noted and analyzed. The more noteworthy plays of the chief dramatists from Goldsmith and Sheridan to the present will be read.

Three hours credit.

**10. Aesthetics and Literary Criticism.** The philosophical basis of aesthetics, the elements of taste; the theory of criticism; a survey of critical standards; a study of the schools of criticism and of the work of the chief literary critics. Critical papers or assigned subjects will be required.

Three hours credit.

**11. English Prose.** Its development; from Sir Thomas Moore to Dryden. The subjective essay; from Cowley to Lamb; some modern masters. The article and review, in criticism, politics, history, philo-

sophy, and religion; Coleridge, Hazlitt, Landor, Macaulay, Carlyle, Matthew Arnold, Lionel Johnson. The historians and biographers.  
Three hours credit.

**12. Newman.** His commanding position in the religious intellectual life of the nineteenth century; life and associations at Oxford; Catholic life; his philosophy of education in the "Idea of a University"; his controversial, apologetic and homiletic works; the great Christian protagonist in the warfare of modern rationalism; the acknowledged perfection of form in his prose. Three hours credit.

**13. Journalism.** (a) Ethics of journalism; a brief survey of the history of journalism, its development, and a discussion of its present tendencies. (b) The technology of the pressroom, news gathering and reporting; preparation of copy; copy-reading, interviewing and editing. Field work will be required and co-operation with the University periodicals. Three hours credit.

**14-15. Early English Literature.** A general survey of the origin and development of the periods to 1750; chief writers and characteristics. Two hours credit.

**16-17. English Literature.** An outline history of modern English literature, with required readings and assignments to cover subjects not provided for in other courses. Two hours credit.

**18. American Literature.** An historical survey, with especial emphasis on the chief influences and writers. One hour credit.

**19. The Essay.** Open to students who have passed English 1-2 or English 3 and 4. Lectures on the critical and philosophical essay, study of selected essays, exercises in the composition of the essay. Three hours a week. First and second semester. Six hours credit.

## EVIDENCES OF RELIGION

Professor Reiner

**1. Christian Revelation; The Church.** Revelation in general; Christianity a revealed religion; Patriarchal and Mosaic Revelation; divine origin of the Christian Revelation. The Church; its institution and end; Constitution of the Church. One hour credit.

**2. The Church; God and Salvation.** Marks and Teaching office of the Church; Holy Scripture and Tradition; the rule of Faith. God the Author and Restorer of our salvation; God considered in Himself; One in Nature; His Existence, Nature, Attributes, Unity; The Trinity. One hour credit.

**3. Creation and Redemption.** Creation; the spiritual world; the material world. Man and the Fall. God the Redeemer; the Person and Nature of the Redeemer; the work of Redemption.

One hour credit.

**4. Grace and the Sacraments.** Actual, habitual and sanctifying grace; infused and acquired virtues; Pelagianism, Jansenism, Naturalism and other errors refuted. The Sacraments in general; Baptism; Confirmation; the Holy Eucharist as a Sacrament and as a Sacrifice.

One hour credit.

**5. The Sacraments; Morality and Virtue; Eschatology.** The Sacraments of Penance, Extreme Unction, Holy Orders and Matrimony; Sacramentary errors refuted. The basis of morality; law, conscience and free will; moral good and moral evil. The Christian's duties toward God; natural and supernatural virtues; Faith, Hope and Charity; the Last Things.

One hour credit.

**6. Divine Worship; Christian Perfection.** Internal and external worship due to God; direct and indirect acts of worship; veneration of the Saints. The Christian's duties toward self and neighbor; works of supererogation.

One hour credit.

**7. Sacred Scripture.** Biblical Canonics and Hermeneutics. Facts, nature and extent of inspiration. The Bible and Science. Explanation of difficulties drawn from geology, astronomy, biology, paleontology and evolution.

One hour credit.

**8. Scripture Reading.** Readings from the Old and New Testament; comparative study of Greek text, and Latin and English versions.

One hour credit.

## GEOLOGY

Professor Carroll

**1. Dynamical and Structural Geology.** Atmospheric, aqueous and igneous agencies and their work. Rivers. River and marine deposits. Glaciers. Earth movements. Volcanoes. Earthquakes. Classification of rocks. Metamorphism. Mineral deposits. Coal, oil, and natural gas. Mountain formation and topography.

Three hours credit.

**2. Historical Geology.** Evolution of the earth. Fossils and their significance. Geological eras, periods, epochs and corresponding systems. The prevalent species of plants and animals of the successive geological ages. The advent of man.

Three hours credit.

## HISTORY

Professors Reiner and Murray; Mr. J. McDonald

1. **Western Europe from the Renaissance to 1815.** Sophomore or Junior year. First semester. Three hours credit.

2. **Western Europe since 1815.** Sophomore or Junior year. Second semester. Three hours credit.

3. **English History to the Death of Elizabeth (1603).** The fusion of Saxon and Norman elements and the gradual advance towards national consciousness with special reference to the growth of political and social institutions; the jury system, the common law; the great charters and the rise of representative government; Tudor despotism and significance in English history of Elizabeth's reign.

With England (800-1500) taken as a vertical section of the mediaeval world, the civilization of which was homogeneous to a marked degree in all the countries of Western Europe, and with the more important events and movements of Middle Ages grouped around England as one of the chief participants therein this course becomes similar in scope to a general course in mediaeval history. Junior or Senior year. First semester. Three hours credit.

4. **English History from the Death of Elizabeth.** The Stuarts and the great struggle for popular and constitutional rights; the cabinet system of government and the rise of political parties; the Industrial Revolution and the building of the British Empire; the spread of democratic ideas, the British Empire today and the problems before it.

Courses 3 and 4 aim to present English History especially as a background and starting point for the study of American History. With informal lecture and textbook as the basis of instruction, stress is laid on the use of source-material and on methods of historical research and composition. (At least two papers designed to embody results of collateral reading and comparison of selected sources are required in Courses 3, 4, 5, 6, 7, 8.) Junior or Senior year. Second semester. Three hours credit.

5. **American History to the Reconstruction Period.** This course, with the following, aims to bring into relief the outstanding influences that have shaped the history of the United States from the Colonial Period to our own, stressing for this purpose topics of import for the social, economic and political development of the nation. Junior or Senior year. First semester. Three hours credit.

6. **American History since the Reconstruction Period.** Supplementary to Course 5, with similar aims and methods of instruction.

Bears in its later phases on conditions and circumstances that led to America's participation in the Great War, with the resulting stimulus to a clearer national consciousness of the significance and value of American citizenship. Junior or Senior year. Second semester. Three hours credit.

**7. Ecclesiastical History.** Origin and early expansion of Christianity; persecutions; heresies; Councils; mediaeval union of Church and State: foreign missions, mediaeval and modern; disruption of Christian unity in the sixteenth century; the papacy and the popes. The course aims to show in sequence the reverses and vicissitudes of the spiritual kingdom of Christ. Junior or Senior year. One semester. Three hours credit.

**8-9. Special Topics in European History.** Courses dealing intensively with certain outstanding events, movements and institutions of direct bearing on the history of the Church. Topics thus treated will be, among others, the Origin and Early Influence of the Papacy, the Temporal Power of the Popes, the Holy Roman Empire, the Controversies over Investitures, Mediaeval Religious Life, the Mendicant Friars, Mediaeval Universities, the Great Schism, the Collapse of Religious Unity in the Sixteenth Century, the Catholic Reaction, Missionary Enterprise in the Spanish Colonies, etc. Research courses giving opportunity to the student to deal freely with source-material and to compare his findings with the treatment of the topics in the best secondary authorities. Senior year. Both semesters. Six hours credit.

**10. Contemporary History.** A course aiming to apply the methods of historical evidence and research to current events. Senior year. One semester. Two hours credit.

**11. Historical Methods.** The principles of historical evidence, the processes of historical research, scientific method in history, the rival claims of literature and science in historical composition, biography. Senior year. One semester. Two hours credit.

## MATHEMATICS

Professors Muehlmann, Frumveller, Theissen, Froebes; Mr. Morrissy

**A. Advanced Algebra.** A course for those who present but one unit of Algebra for entrance to college. The work starts with a review of Elementary Algebra, and then takes up such subjects as are usually given in a third-semester high school course of Algebra. Can be counted only as an elective. Two hours credit.

**B. Solid Geometry.** A course for those who have not had solid geometry in high school. Cannot be counted in fulfillment of the requirements in Mathematics. Two hours credit.

**1. College Algebra.** After a brief review of the foundations, the following topics are treated: variables and functions, linear and quadratic equations, determinants, logarithms, undetermined coefficients, complex numbers, binomial theorem, theory of equations, and series. For Freshmen. Prerequisite: Entrance Algebra, one and one-half units; and Plane Geometry. Three hours credit.

**2. Plane Trigonometry.** The six elementary functions for acute angles; goniometry; solution of the right and oblique triangles; graphs of the functions and solution of simple trigonometric equations. For Freshmen. Three hours credit.

**3-4. Unified Mathematics.** This course endeavors to coordinate Mathematics with the facts of everyday life, and gives the student some concept of the character and possibility of modern mathematics. Being analytic in method, the course has great educational value, besides introducing the student to the technique of mathematics, including a working knowledge of integral calculus. Six hours credit.

**5. Spherical Trigonometry.** The right spherical triangle, Napier's rules, formulas and methods for the solution of the general triangle. Open to students who have had Mathematics 2. Two hours credit.

**6. Surveying.** The theory, use and adjustment of instruments; methods of computation and arrangement of data; practical field work and topographic map-making. Three hours credit.

**7. Plane Analytic Geometry.** Loci and their equations. The straight line; the circle; the parabola, ellipse, and hyperbola; transformation of co-ordinates; polar co-ordinates. Open to Sophomores and Juniors. Three hours credit.

**8. Solid Analytic Geometry.** An introductory treatment of the point, plane, straight line, and surfaces of revolution. Open to Sophomores and Juniors. Three hours credit.

**9. Differential Calculus.** Fundamental notions of variables; functions, limits, derivative and differentials; differentiation of the ordinary algebraic, exponential and trigonometric functions with geometric applications to maxima and minima, inflexions, and envelopes; Taylor's formula. Open to Sophomores and Juniors. Three hours credit.

**10. Integral Calculus.** The nature of integration; elementary processes and integrals; geometric applications to area, length, volume and surface; multiple integrals; use of infinite series in integration; introduction to differential equations. Open to Sophomores and Juniors. Three hours credit.

**11. Methods of Teaching Mathematics.** A course for those who expect to teach high-school mathematics. Open to students who have completed Mathematics 8 and 9. Will not be counted towards a major. Two hours credit.

**12. Business Mathematics.** A practical course designed to give the essential knowledge required of every business man. The matter covers interest, pay-roll calculations, insurance, exchange, building and loan associations, graphical and statistical representation, and the commercial application of logarithms to compound interest and allied problems, that are peculiar to the actuary and accountant. Both semesters. Six hours credit.

### MODERN LANGUAGES

Professors Provost, Boursy, Azuola; Mr. Kenngott, Mr. Lechtenberg and Mr. Dickopf

#### French

**A. Elementary French.** Careful drill in pronunciation. The rudiments of grammar, including the inflection of the regular and more common irregular verbs; the order of words in the sentence; colloquial exercises; writing French from dictation; easy themes; conversation. First semester. Four hours credit.

**B. Elementary French (Continued).** Mastery of irregular verb forms; uses of the conditional subjunctive; syntax. Reading of graduated texts, with constant practice in retranslating into French portions of the text read; dictation, conversation. Second semester. Four hours credit.

**C. Intermediate French.** Reading, conversation, prose, composition, letter-writing, exercises in French syntax. Prerequisite: French A and B or equivalents. First semester. Four hours credit.

**D. Intermediate French (Continued).** Grammar review, with special attention to problems in syntax. Detailed written abstracts of texts read. Letter-writing. Conversation. Second semester. Four hours credit.

**5. Modern French Prose.** The study of novels or short stories by modern French prose writers: Erckmann-Chatrian, Bazin, Chateaubriand and others. Grammar and composition based on a French text. Three hours credit.

**6. French Poetry of the Nineteenth Century.** Readings from Alfred de Vigny, Alfred de Musset, Lamartine and others, with an introduction to French versification. Selections committed to memory. Three hours credit.

**7. French Oratory.** A study of the French orators and their works; Bossuet, Bourdaloue, Massillon, Fléchier; prose composition; private reading. Three hours credit.

**8. The French Drama.** The reading of dramas chosen from such authors as Corneille, Molière, Racine, together with a study of their lives and works. Three hours credit.

**9. History of French Literature.** A general survey of the history of French literature from its earliest beginnings to the close of the reign of Louis XIV; collateral reading. Three hours credit.

**10. History of French Literature.** A general outline of the literature of the seventeenth, eighteenth and nineteenth centuries, dealing only with writers of first importance. Three hours credit.

**11. The Romantic Movement.** Lectures on the origin, development, and decline of romanticism. Study of representative works of the first half of the nineteenth century. Essays, collateral reading, and reports. Two hours credit.

**12. Early French Drama.** Open to seniors and graduate students. Origin of the drama, its early development during the Middle Ages and Renaissance period; study of representative dramatic productions of those periods. Two hours credit.

**13. Advanced Composition and Phonetics.** Open to seniors and graduate students. Study of phonetics and idiomatic construction accompanied by a systematic review of French syntax. Phonetic transcription and daily themes. Two hours credit.

**14. Historical French Grammar.** Open only to graduate students. Study of origin and development of modern French. Reading of selected works best suited to illustrate this development. Two hours credit.

**15 Old French.** Open only to graduate students. Study of Old French from the standpoint of derivation, inflection, and syntax. Reading of selected and illustrative works. Two hours credit.

### German

**A. Elementary German.** This course is intended for students who have not presented German for admission. Grammar, pronunciation, colloquial exercises, easy themes, translation from prose selections. First semester. Four hours credit.

**B. Elementary German (Continued).** Weak and strong verbs; the use of the modal auxiliaries; the chief rules of syntax and word-

order; selections in prose and verse; dictation based upon the readings; frequent short themes; conversation; memorizing of poems. Readings; Baumbach, *Der Schwiegersohn*; Storm, *Immensee*; Arnold Fritz auf Ferien; Wildenbruch, *Das Edle Blut*. Four hours credit.

**2a. Elementary German.\*** Review of grammar and considerable reading. A special course open only to students, who attended last year's course 1 a. Both semesters. Four hours credit.

**C. Intermediate German.** Rapid review of grammar; dictation; prose composition. Open to students who have credit for German A. and B, or who have presented elementary German for admission. First semester. Four hours credit.

**D. Intermediate German (Continued).** The more difficult points of syntax; special problems of grammar. Reading of selected texts. Dictation and themes based upon the reading. Memorizing of poems. Second semester. Readings: Schiller, *Wilhelm Tell*; Goethe, *Herman und Dorothea* and *Iphigenie*; Uhland's Poems. Four hours credit.

**5. German Prose Writers.** The study of novels or short stories by German prose writers; Freytag, Hauff, Herbert, Stifter, Novalis, Brentano, Eichendorff. Three hours credit.

**6. German Poetry.** Readings from German ballads and lyrics. Selections committed to memory. Special attention is given to the study of rhythm and metre. Three hours credit.

**7. The German Epic.** *Dreizehnlinden*, Weber; *Der Trompeter von Säckingen*, Scheffel; selections from other epic poems. Three hours credit.

**8. The German Drama.** Dramas of Goethe, Schiller, and Lessing. Selections from *Ansengruber*, Hebel, *Wildenbruch*. Three hours credit.

**9. History of German Literature.** A general survey of the history of German literature from its earliest beginnings to the period of Frederick the Great; collateral reading. Three hours credit.

**10. History of German Literature.** A general outline of the literature of the eighteenth and nineteenth centuries, dealing mainly with the writers of the first importance. Three hours credit.

**11. Scientific Reading.** For students preparing for scientific courses which require a facility in the reading of scientific literature. Prerequisites: German A and B. Text: Dippold's *Scientific German Reader*, current scientific literature; monographs. One semester. Two hours credit.

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\*To be discontinued in 1923.

**12. German Conversation.** Considerable contemporary German reading and conversation based upon the class matter. Classes entirely conducted in German. Students admitted only by special permission of the instructor. One semester. Three hours credit.

### Spanish

**A-B. Elementary Spanish.** Grammar. Parts of speech; regular conjugations; study of the Indicative Mood, difference of tense meanings; Imperative; use of the simpler idioms. Pronunciation, composition and conversation. Roessler and Remy's First Spanish Reader. Credit not given unless the full course is completed. Both semesters. Eight hours credit.

**C-D. Intermediate Spanish.** Advanced grammar; idiomatic uses of the prepositions; irregular verbs, verbs requiring a preposition. Composition and conversation. Reading: Perez Galdos, Palacio Valdes, Valera, Alarcon, Blasco Ibanez and others. Both semesters. Six hours credit.

**5-6. Composition and Conversation.** Open to students who have completed course A-B or who have presented two units of Spanish for admission. Text to be selected by the instructor. Both semesters. Four hours credit.

**7. Commercial Spanish.** Must be preceded by or taken concurrently with Spanish C-D. Practice in colloquial Spanish, commercial forms, letter-writing and advertisements. Conversation in Spanish on topics relating to travel, daily life and questions of present day interest. Text to be selected by the instructor. One semester. Three hours credit.

**8. Classic Drama.** The Golden Age; critical reading of selected works of Lope de Vega, Calderon and their contemporaries. Papers on the lives, works and times of these authors. Two hours credit.

**9. Drama of the Nineteenth Century.** Reading and study of some of the principal works of such modern Spanish authors as Moratin, Nunez de Arce, Echegaray, and others. Two hours credit.

**10. Contemporary Literature.** Study of several works of leading Latin-American and Spanish authors with lectures and collateral reading on contemporary tendencies. Two hours credit.

**11. Latin America.** Study in Spanish of the lands and people from a geographical and historical standpoint with conversation in Spanish based on the text read. Collateral reading and reports. Two hours credit.

12. **Early Spanish Drama.** Open only to graduate students. Study of the drama from its earliest forms to the time of Lope de Vega; reading of works illustrating its early development.

Two hours credit.

13. **Early Spanish.** Open only to graduate students. Study of the literature in the first centuries of its development; reading of the Cid.

Two hours credit.

## PHILOSOPHY

Professors Deglman, MacMahon, and Reiner

1. **Formal Logic.** This will comprise the customary treatment of formal logic with added emphasis on inductive reasoning and the informal reasoning of every day life and of literature. Required of Juniors. One semester.

Three hours credit.

2. **Introduction to Philosophy.** This course sets before the student the meaning and scope of philosophy and introduces him to the principal problems of philosophic discussion; the problem of reality, the problem of knowledge and the problem of conduct. One semester.

Three hours credit.

3. **Psychology.** Beginning with an explanation of the cerebro-spinal nervous system, this course leads on to the study of the phenomena of sensuous life; sense perception, imagination and memory, sensuous appetite, movement and feeling. Required of Juniors. First semester.

Three hours credit.

4. **Psychology.** A continuation of Course 3, embracing the study of the phenomena of rational life; the origin and development of intellectual concepts, rational appetency, free-will and determinism. The latter part of the semester is given to rational psychology; the origin, nature and destiny of the human soul, the union of the soul and body. Required of Juniors. Second semester.

Three hours credit.

5. **Metaphysics.** In this course are treated the subjects usually included under Ontology and Cosmology: the notions of being, act and potency, substance and accident, relation and cause; the origin of the material universe; the constitution of inorganic bodies, organic life, the laws of physical nature, miracles. One semester.

Three hours credit.

6. **Metaphysics.** The first part of this course is devoted to Natural Theology, including: the idea of God, the proofs for the existence of God, the attributes of God, fore-knowledge and free-will, the divine action in the universe, providence.

The second part of the course is taken up with the questions of epistemology; truth and error, the nature and fact of certitude, the value of human testimony, the criterion of truth. One semester.

Three hours credit.

**7. Ethics.** In this course are treated the subjects belonging to general theory; the nature of the moral act, the distinction between moral good and moral evil, moral habits, natural and positive moral law, conscience, rights and duties. Required of Seniors.

Four hours credit.

**8. Ethics.** The application of the general principles of ethics to particular, individual and social rights and obligations: the right to property, life, honor; the rights and obligations of domestic society, marriage and divorce; civil society, its nature and forms; the rights of civil authority; church and state; the ethics of international relations, peace and war. Second semester.

Three hours credit.

**9. History of Ancient Greek Philosophy.** In ancient Greek philosophy attention is directed primarily to the teachings of Socrates, Plato and Aristotle and to the systems of Stoicism and Epicureanism. Plotinus is taken as representative of the Alexandrian movement; and St. Augustine is studied as the most conspicuous example of the early Christian philosopher. This course is carried on by means of lectures and recitations and the reading of representative selections. Turner's History of Philosophy is used as the basis of lectures and recitations. One semester.

Three hours credit.

**10. History of Mediaeval and Modern Philosophy.** In the study of mediaeval philosophy attention is centered on the origin and development of Scholastic philosophy and on the system of St. Thomas as the most complete synthesis of mediaeval thought. In the division of modern philosophy, Descartes, Locke, Hume, Kant, Hegel and Spencer are taken for special study. Among present day tendencies, the revival of Scholasticism and the trend towards realism are noticed. De Wulf's Mediaeval Philosophy is made the basis of the treatment of Scholastic Philosophy and Turner's History of Philosophy is used as the text for modern systems. Lectures, recitations, readings and discussions.

Two hours credit.

**12. Child Psychology.** The child and its faculties. Will-training. Influences that bear on the will. The awakening of the will. The will and the intellect of the child. The will, the intellect and all-around ideal. Maladies of the will. Moral training in the schools. Religion as a factor in the training of the child. Education of the sense faculties, the imagination and the memory of the child. Development of attention, judgment and reasoning of the child. The part

the emotions play in the life of the child. Nature of the emotions and specific consideration of the important types of emotions. The physiology and psychology of habit. Importance of cultivating good and useful habits from the start. The will and habit. Means of training. Formal and informal instruction, discipline and example, The formation of character. The teacher and the child.

Three hours credit.

**13. Practical Psychology.** A course in practical and applied psychology, including a study of the nature and development of the powers and mental faculties which make for personality and efficiency. The course includes a study of the sources of knowledge; sense perceptions and intellectual activities; ideas, judgments and reasoning; memory, imagination and association of ideas; interest, attention and concentration. The course also comprises a study of the will and will-training; self-control, initiative, self-reliance, self-respect, cheerfulness, politeness, enthusiasm, courage, loyalty; the ideal and its value; personality.

Three hours credit.

**14. Social Psychology.** The course in social psychology is an application of the principles of psychology to the interpretation of social phenomena; a psychological study of the problems of human interactions. The course comprises a study of the role of fundamental instinctive impulses, emotions, sympathy, imitation, mind and will, in social life. It takes up the questions of co-ordination and co-operation, social control in group action, forms of association, the problem of social order, etc.

Three hours credit.

## PHYSICS

Professors Carroll and Kremer

**1-2. General Physics.** Mechanics, Sound, Light, Heat, Magnetism, and Electricity. Must be preceded or accompanied by a course in Plane Trigonometry.

**1a-2a.** Lectures, experimental demonstrations and recitations, two hours a week. Both semesters. Four hours credit.

**1b-2b.** Laboratory, four hours a week. Both semesters. Four hours credit.

**3-4. General Physics.** A more mathematical and more complete treatment of the general principles of the subject than that given in

1-2. Should be preceded or accompanied by a course in Plane Trigonometry.

3a-4a. Lectures, experimental demonstrations, recitations, three hours a week, both semesters. Six hours credit.

3b-4b. Laboratory, two hours a week, both semesters. Two hours credit.

5-6. **Advanced Physics.** A more mathematical treatment of Mechanics, Molecular Physics, Light and Heat. Must be preceded or accompanied by a course in Calculus. Prerequisite: Course 1-2 or 3-4. Lectures four hours a week. Both semesters. Eight hours credit.

7-8. **Electricity and Magnetism; Radioactivity; the Electron Theory.** Must be preceded or accompanied by Calculus. Prerequisite: Course 1-2 or 3-4. Lecture, four hours a week. Both semesters. Eight hours credit.

9-10. **Experimental Physics.** Advanced laboratory work in Electricity and Magnetism. Accurate measurement of current, resistance, electromotive force, capacity; magnetic properties of iron and steel; use of electrometer and potentiometer; a practical study of the properties of direct and alternating currents and of the principles underlying the construction of dynamo-electric machinery. Six hours a week. Both semesters. Prerequisite: Course 7-8. Six hours credit.

13. **Electric Oscillations and Electromagnetic Waves; Radio Communication.** Lectures two hours a week. One semester. Prerequisite: Course 1-2 or 3-4 and a course in Calculus. Two hours credit.

## POLITICAL SCIENCE

Professor Atkinson

1. **American Government.** A study of the historical foundations, growth, development and practical workings of the American Government. The division of the powers of government between nation and state, the limitations on each. The modifications made in the theoretical structure by the development of the doctrine of implied powers, the extension of the police powers of the state and the practical workings of modern politics will be studied in detail. Second semester. Three hours credit.

2. **Municipal Government.** The place of the city in history. The position of the city in the political system of the United States. Government by commission. The city manager plan. Municipal Home Rule. Social problems and social activities of the city. The

relation of the city to quasi-public works. First or second semester.  
Two hours credit.

**3. Comparative National Government.** A critical study of the structure and functions of leading nations. Emphasis will be placed upon the making and amendment of constitutions and on methods of administration. The League of Nations idea. First semester.

Three hours credit.

**4. Principles of Labor Legislation.** A systematic study of the general principles of labor legislation. The basis of labor law. Individual and collective bargaining. The Minimum Wage Movement in America and Australia. Hours of labor and the unemployment problem. Legal aspects of safety and health. Various forms of social insurance. Labor administration. Second semester.

Two hours credit.

**5. Public Finance.** Nature and principles of taxation. Public expenditures. Current tax laws will be emphasized, such as Income tax, Inheritance tax, General Property tax, Excess Profits tax, internal revenues, customs duties, public debts, national budgetary systems, the incidence of taxation, methods of war finance. Second semester.

Two hours credit.

## PUBLIC SPEAKING

Professor Doyle, Mr. C. McDonald

**1. Principles of Vocal Expression.** Practical training in the fundamentals of effective speaking. Instruction on the management of the breath; methods of acquiring clear articulation; correct and refined pronunciation; direct, conversational and natural speaking; inflection; qualities of voice and their use; purity, range and flexibility of tone. Individual criticism and conference with the instructor.

One hour credit.

**2. Gesture and Technique of Action.** The study of poise; posture, movement and gesture; spontaneity of expression; correction of mannerisms; power and pathos; ease, grace and effectiveness of delivery. Class exercises, criticism and conferences.

One hour credit.

**3. Argumentation and Debating.** A practical training for those students who have taken or are taking the course in oratory prescribed under English 5. Thought development; division and arrangement; argumentative, persuasive and demonstrative speeches; a finished argument and the fallacies of argument; the essentials of parliamentary law and practice; manner of conducting deliberative assemblies. Class exercises. Individual criticisms and conferences.

One hour credit.

**4. The Occasional Public Address.** Informal public addresses; the presentation of business propositions before small or large audiences; impromptu and extempore speaking; after-dinner talks. Speeches for various occasions. Class exercises, individual criticisms and conferences. One hour credit.

**5-6. Practical Oratory and Debating.** This course is open to all students of the college. Its aim is to afford special training in public speaking. To this end strict parliamentary practice is followed throughout. The literary and oratorical exercises include declamations and elocutionary reading; criticism and discussion of interpretation and delivery; the composition and reading of short stories, poems and essays; orations illustrative of rhetorical principles; extemporaneous speaking; the knowledge and application of parliamentary law; debates. One hour credit.

## SOCIOLOGY

Professor Losty

**1. Social History.** A survey of ancient, mediaeval and modern social movements. Social value of Mosaic Law and Christian practice with special emphasis on industrial democracy. A review of modern reforms, factory legislation, workingmen's compensation, social insurance, profit sharing and industrial co-operation. The Church in modern social problems. Three hours credit.

**2. General Sociology.** An introduction to the scientific study of social problems and their relation to the family and the individual. A study of natural resources, population, immigration, labor organization, woman and child labor. Also problems of poverty, crime, housing, with a survey of preventive work relating to the poor, defectives and delinquents. Three hours credit.

**3. Social Ethics.** An application of Christian ethics to economic and social phenomena. The origin and development of the family, marriage, and the social order. The ethics of property, liberalism, socialism and communism; capital and labor combines, strikes, lock-outs and boycotts; public ownership and control; monopolies and modern finance; public health, control of education, traffic, etc. Three hours credit.

**4. Organized Charity.** A study of conditions affecting the family and community. Social treatment and application in the case of dependents and delinquents. The purposes and methods of investigation, diagnosis and treatment studied by means of selected cases. Co-operation of public and private agencies is studied, and inspection visits made to important institutions. Three hours credit.

## ZOOLOGY

Professor Menge, Assistant Professor Giesen; Assistants: Mr. Flaherty, Mr. O'Neil and Mr. Vollert

**1. General Zoology.** This course includes a thorough study of typical examples of the great animal divisions anatomically and physiologically. This means a study of the fundamental properties of all living things, their functions, structures, classification, habits, life histories, and evolution. The forms selected for study illustrate the chief principles and generalizations of biology. Special attention is given to parasitic forms. Second semester. Four hours credit.

**1a. General Biology for Non-professional Students.** This course aims to give a thorough understanding of modern biological problems to those students in the various departments of the University who do not need the detailed laboratory work required of professional students. The lectures and quizzes are the same as in Course 1, but only one laboratory period a week is given.

**2. Introductory Vertebrate Embryology.** This study includes a study of cell-division, maturation, fertilization, cleavage, formation of the germ-layers, and development of the various organ systems. The course is largely comparative, the frog and chick forming the basis of the comparisons. One semester. Prerequisite: Zoology I.

Four hours credit.

**3. Comparative Anatomy and Physiology of Vertebrates.** The comparisons are made between the frog (representing the amphibians), the dogfish (representing the link between early and modern fishes), the turtle (representing the reptiles and birds), and the cat (representing the mammal). Prerequisite: Zoology 1 and 2 or their equivalents. Second semester.

Four hours credit.

**5. Technique.** Technique of fixation, sectioning, staining, and mounting of histological and embryological material by paraffin and celloidin methods. One semester.

One hour credit.

**6. Advanced Zoological Studies.** This course is for the purpose of introducing the student to the methods used by investigators in zoology. The work is largely individual, each student being assigned a topic. The original literature must be examined and in some cases the student will be obliged to prepare specimens illustrating his topic. The results of his work must then be embodied in a report. One semester.

Three hours credit.

**7. Literature of Zoology.** All advanced students as well as the assistants in biology must meet for at least one hour each week to hear and discuss papers read by advanced students.

**8. German Scientific Reading.** Classical biological treatises in German as well as important papers in current literature will be selected. The purpose of the course is to facilitate the reading of foreign biological literature and to familiarize the student with the technical terms of sciences. One semester. One hour credit.

**9. French Scientific Reading.** This is the second semester's work, a parallel of Course 8, to accomplish the same for French as for German. One semester. One hour credit.

**10. Research in Zoology.** Subjects to be assigned. Research may be undertaken in anatomy, embryology, histology, neurology, life history, cytology, or physiology.

**11. Speculative Zoology.** One semester. Three hours credit.

**12. Speculative Zoology.** A continuation of Course 11, but with special attention to animal psychology, such as discussions on instinct and intelligence. One semester. Three hours credit.

In addition to the supplementary reading assigned as regular work all students taking more than one year in Biology must have read the following and pass an oral examination thereon: Beddard: Geographical Distribution; Conklin: Heredity and Environment; Darwin: Origin of Species; Ganong: The Living Plant; Huxley: Man's Place in Nature; Kellogg: Darwinism Today; Locy: Biology and Its Makers; Mendel: Experiments in Plant Hybridization; Morgan: A Critique of the Theory of Evolution; Wallace: Malay Archipelago; Walter: Genetics; Weismann: The Germ Plasm.

## DEGREES CONFERRED

June 17, 1921

## Bachelor of Arts

Paul G. Boemer  
 Peter A. Brooks  
 Ferdinand A. Bruckwicki

Donald L. Cooper  
 George A. Herrmann  
 Charles F. Snopek

## Bachelor of Science

John J. Metz

## Bachelor of Science in Medicine

Julius Adams  
 Reuben H. Bitter  
 Edmund Brzezanski  
 Joseph G. Charlier  
 Roy L. Fischer  
 Edward B. Jacobson  
 William M. Jermain  
 William C. Kirsten  
 Eugene P. Lieberthal  
 Maurice J. Lieberthal  
 Leo J. Moriarty  
 James H. Murphy  
 Paul J. Niland

Conrad R. Nystrum  
 George J. Pugh  
 William A. Rauch  
 Isadore Reifenrath  
 Pierce J. Reilly  
 Adolph J. Schloemer  
 Herbert G. Schmidt  
 Herbert F. Scholz  
 Raymond P. Schowalter  
 Sidney J. Silbar  
 Lemuel D. Smith  
 Harry G. Walters  
 James F. Wilkinson

## REGISTER OF STUDENTS

## GRADUATE STUDENTS

Filipi, Rev. Miloslav, Philosophy.....  
 .....Milwaukee, Wis.  
 A.B. Bellevue College, 1909  
 Gilbert, Max, Chemistry.. Milwaukee, Wis.  
 A.B. University of Wisconsin, 1915  
 Hargarten, Rev. Henry L., Philosophy  
 .....St. Francis, Wis.  
 A.B. St. Francis Seminary, 1915  
 Hayes, Rev. William C., Philosophy...  
 .....Milwaukee, Wis.  
 A.B. Northwestern College, 1920

Herrmann, George A., Chemistry.....  
 .....Milwaukee, Wis.  
 A.B. Marquette University, 1921  
 O'Boyle, Rev. John, Biology.....  
 .....Milwaukee, Wis.  
 A.B. Campion, 1915  
 Schmitz, Rev. Thomas, Biology.....  
 .....St. Francis, Wis.  
 A.B. St. Francis Seminary, 1909  
 Singh, Nand, Economics.. Milwaukee, Wis.  
 A.M. Marquette University, 1922

## UNDERGRADUATE STUDENTS

## Seniors

Ahmam, Alphonse Joseph.....  
 .....Milwaukee, Wis.  
 Arnold, Frederick..... Milwaukee, Wis.  
 Crottier, Charles J..... Eveleth, Minn.  
 Daly, Lawrence ..... Milwaukee, Wis.  
 Dickopf, Clarence..... St. Paul, Minn.  
 Gramling, Gregory..... Milwaukee, Wis.  
 Griffith, Joseph C..... Milwaukee, Wis.  
 Ingrassia, Anthony..... Rockford, Ill.  
 Kilian, Alvin D..... Milwaukee, Wis.  
 Kurt, Fred..... Cascade, Ia.

Lamers, William..... Milwaukee, Wis.  
 Manning, Charles..... Hartford, Wis.  
 McCarthy, Robert S..... Milwaukee, Wis.  
 Pirsch, Margaret V..... Kenosha, Wis.  
 Riley, Joseph..... Milwaukee, Wis.  
 Russell, Ralph J..... Hartford, Wis.  
 Stumpf, William K..... Milwaukee, Wis.  
 Sister Mary Verene Hagemann, O.S.F.  
 ..... Milwaukee, Wis.  
 Waldeck, Edwin A..... Milwaukee, Wis.  
 Zlatnik, Alfred P..... Milwaukee, Wis.

## Juniors

|                             |                 |                           |                   |
|-----------------------------|-----------------|---------------------------|-------------------|
| Berry, James W.....         | Milwaukee, Wis. | McElligott, Joseph A..... | Milwaukee, Wis.   |
| Byrne, Thomas A.....        | Milwaukee, Wis. | Mahkorn, Raymond J.....   | Milwaukee, Wis.   |
| Dugan, John C.....          | La Crosse, Wis. | Newberry, Edwin W.....    | Burlington, Wis.  |
| Ehlenbach, Arthur S.....    | Milwaukee, Wis. | Quirk, Charles.....       | Milwaukee, Wis.   |
| Freiburger, Frank A.....    | Wauwatosa, Wis. | Schodron, Robert C.....   | Fond du Lac, Wis. |
| Friar, John H.....          | Milwaukee, Wis. | Schoen, Ludwig Alois..... | La Crosse, Wis.   |
| Irwin, Robert.....          | Lodi, Wis.      | Vollert Arthur J.....     | Milwaukee, Wis.   |
| July, Alphonse.....         | Milwaukee, Wis. | Vollert, Cyril.....       | Milwaukee, Wis.   |
| Knaisel, Stephen Anton..... | Chicago, Ill.   | Wollersheim, Peter.....   | Peebles, Wis.     |

## Sophomores

|                           |                   |                          |                     |
|---------------------------|-------------------|--------------------------|---------------------|
| Altstadt, Ralph J.....    | Milwaukee, Wis.   | Krause, Edmund H.....    | Milwaukee, Wis.     |
| Bemis, Ira.....           | Adell, Wis.       | Kritter, Frank J.....    | Milwaukee, Wis.     |
| Bloom, J. C.....          | New Orleans, La.  | Kuesel, A. L.....        | Milwaukee, Wis.     |
| Boley, Michael H.....     | Milwaukee, Wis.   | Kustermann, Alois F..... | St. Nazianz, Wis.   |
| Bolger, J. V.....         | Minocqua, Wis.    | Lawres, Irving A.....    | Milwaukee, Wis.     |
| Campbell, Thomas J.....   | De Pere, Wis.     | McConnell, Earl D.....   | Darlington, Wis.    |
| Carpenter, Richard.....   | Oswego, Kans.     | McMannis, John F.....    | Ackley, Ia.         |
| Casey, John.....          | Milwaukee, Wis.   | McManus, Neil.....       | Milwaukee, Wis.     |
| Chmielewski, Anthony..... | Milwaukee, Wis.   | Martin, Jerome.....      | Green Bay, Wis.     |
| Crigler, Ray R.....       | Cudahy, Wis.      | Masilko, Francis.....    | Fond du Lac, Wis.   |
| Curtis, W. E.....         | Ottawa, Ill.      | O'Hara, Charles M.....   | Milwaukee, Wis.     |
| Delmore, Ellis W.....     | Two Rivers, Wis.  | O'Neil, Norman J.....    | Wahpeton, Ia.       |
| Demsey, Bernard W.....    | Milwaukee, Wis.   | Ristow, H. A.....        | Milwaukee, Wis.     |
| Drunasky, Harford.....    | Sun Prairie, Wis. | Schilling, Harold J..... | New Hampton, Ia.    |
| Dudenhofer, Clarence..... | Milwaukee, Wis.   | Sheridan, Robert L.....  | Milwaukee, Wis.     |
| Eckstein, Frank P.....    | Milwaukee, Wis.   | Skemp, George.....       | La Crosse, Wis.     |
| Esser, Oscar J.....       | New Ulm, Minn.    | Taughter, James.....     | Milwaukee, Wis.     |
| Flaherty, Gervase.....    | Hilbert, Wis.     | Unertl, Jack.....        | Milwaukee, Wis.     |
| Furlong, Thomas.....      | Milwaukee, Wis.   | Ware, Frank A.....       | Boscobel, Wis.      |
| Gapinski, Roman.....      | Milwaukee, Wis.   | Wieckenand, W. J.....    | Darlington, Wis.    |
| Johnston, Stuart H.....   | Milwaukee, Wis.   | Wyse, Roderick W.....    | Campbellsport, Wis. |

## Freshmen

|                          |                     |                            |                       |
|--------------------------|---------------------|----------------------------|-----------------------|
| Agnew, Joseph G.....     | Waukesha, Wis.      | Haskins, William.....      | La Salle, Ill.        |
| Aubin, Francis.....      | Peshigo, Wis.       | Hayes, Francis.....        | Milwaukee, Wis.       |
| Baemie, Earl.....        | Ashland, Wis.       | Heise, Herbert.....        | Winona, Minn.         |
| Bellehumeur, Carl.....   | Ironwood, Mich.     | Hesprich, Eli P.....       | Lomira, Wis.          |
| Benton, Thomas.....      | Eden Valley, Minn.  | Jordan, John A.....        | Lake Geneva, Wis.     |
| Berghammer, Walter.....  | Milwaukee, Wis.     | King, Cecelia.....         | Minneapolis, Minn.    |
| Bitman, Othmar.....      | Milwaukee, Wis.     | King, Jerome J.....        | Milwaukee, Wis.       |
| Callen, Walter.....      | Racine, Wis.        | Klas, Alois J.....         | Fredonia, Wis.        |
| Carroll, Jack F.....     | Milwaukee, Wis.     | Kremer, Ernest.....        | Walla Walla, Wash.    |
| Casper, Stephen L.....   | Nebraska City, Neb. | Kreul, Delbert.....        | Fennimore, Wis.       |
| Coffey, Sylvester E..... | Kaukauna, Wis.      | Krzysko, Alois E.....      | Milwaukee, Wis.       |
| Collopy, John F.....     | Milwaukee, Wis.     | Kutschera, Alvin R.....    | Milwaukee, Wis.       |
| Conroy, Conde.....       | Milwaukee, Wis.     | Larson, Milo.....          | Browerville, Minn.    |
| *Coogan, George.....     | Milwaukee, Wis.     | Laughlin, Leland.....      | Milwaukee, Wis.       |
| Coughlin, Edmund.....    | Milwaukee, Wis.     | Leibly, Frank J.....       | Rice Lake, Wis.       |
| Coughlin, Lawrence.....  | Milwaukee, Wis.     | Leonard, William P.....    | Milwaukee, Wis.       |
| Crowley, Leo S.....      | Miles City, Mont.   | McCarthy, Justin J.....    | Antigo, Wis.          |
| Curtin, Donald.....      | Milwaukee, Wis.     | McKinnon, Cyril N.....     | Milwaukee, Wis.       |
| Daly, Jerome A.....      | Milwaukee, Wis.     | McPhail, Robert.....       | Duluth, Minn.         |
| Dermody, Eugene T.....   | Milwaukee, Wis.     | Makowski, A. F.....        | Milwaukee, Wis.       |
| Downey, Garnet.....      | West Allis, Wis.    | Malezewski, Alexander..... | Milwaukee, Wis.       |
| Drinan, Francis M.....   | Muskegon, Mich.     | Martineau, Edward.....     | Oconto, Wis.          |
| Dunn, Mortimer.....      | Milwaukee, Wis.     | Mason, Frank, Jr.....      | Wauwatosa, Wis.       |
| Eggert, Albert H.....    | Milwaukee, Wis.     | Morrissey, Martin J.....   | Delavan, Wis.         |
| Everts, Edwin L.....     | Milwaukee, Wis.     | Mulligan, George.....      | Milwaukee, Wis.       |
| Farrell, Hubert J.....   | Green Bay, Wis.     | Murphy, Francis J.....     | Mildred, Penn.        |
| Fischer, Clark J.....    | Green Bay, Wis.     | Naegeli, Arnold E.....     | Durand, Wis.          |
| Fischer, Raymond.....    | Fond du Lac, Wis.   | O'Connell, Daniel.....     | Deer River, Minn.     |
| Fons, Jerome.....        | Milwaukee, Wis.     | O'Neil, William.....       | Milwaukee, Wis.       |
| Foster, Cyril C.....     | Milwaukee, Wis.     | O'Rourke, A. J.....        | Milwaukee, Wis.       |
| Gauckler, Guido E.....   | Milwaukee, Wis.     | Piszczek, Casimir.....     | F.....Milwaukee, Wis. |
| Geraghty, Eugene E.....  | Milwaukee, Wis.     | Pokorny, Norman A.....     | Milwaukee, Wis.       |
| Hagerty, Warren.....     | Green Bay, Wis.     |                            |                       |
| Halloin, Joseph E.....   | Green Bay, Wis.     |                            |                       |

\*Deceased, April 15, 1922.

|                           |                  |                          |                    |
|---------------------------|------------------|--------------------------|--------------------|
| Purtell, Paul .....       | Milwaukee, Wis.  | Sullivan, Ambrose H..... | Milwaukee, Wis.    |
| Redlin, Albert G.....     | Milwaukee, Wis.  | Sullivan, John J.....    | Sparta, Wis.       |
| Reilly, John E.....       | Milwaukee, Wis.  | Sullivan, John L.....    | La Crosse, Wis.    |
| Rivers, Truman .....      | Stanley, Wis.    | Thill, Matthew .....     | Austin, Minn.      |
| Rourk, Dalton .....       | Milwaukee, Wis.  | Toner, George .....      | Milwaukee, Wis.    |
| Schaefer, Gordon .....    | Lake Mills, Wis. | Wagener, Nicholas J....  | Greensville, Penn. |
| Schellhouse, Earl M....   | Elk Mound, Wis.  | Wendt, Floyd A.....      | Lake Mills, Wis.   |
| Schnader, Phyllis .....   | Milwaukee, Wis.  | Wilkinson, Donald C....  | Oconomowoc, Wis.   |
| Schoenecker, Harold V...  | Milwaukee, Wis.  | Wilkinson, John D....    | Oconomowoc, Wis.   |
| Seidl, Edward .....       | Milwaukee, Wis.  | Wilmot, Harry F.....     | Milwaukee, Wis.    |
| Spliedt Joseph A.....     | Muskegon, Mich.  | Woodworth, Harold G...   | Milwaukee, Wis.    |
| Stencil, Joseph L.....    | Arcadia, Wis.    | Zaun, John .....         | Milwaukee, Wis.    |
| Stuckenhoff, Harry E..... | Wynot, Nebr.     |                          |                    |

### Unclassified Students

|                       |                       |                     |               |
|-----------------------|-----------------------|---------------------|---------------|
| Hintz, Arthur ....    | South Milwaukee, Wis. | Weller, Edgar ..... | Amherst, Wis. |
| Welsh, Lorenzo W..... | Green Bay, Wis.       |                     |               |



## INDEX

|                                      | Page   |
|--------------------------------------|--------|
| Absences .....                       | 28-29  |
| Administration, Officers of .....    | 4      |
| Admission .....                      | 33-42  |
| By Certificate .....                 | 34     |
| By Examination .....                 | 34     |
| By Examination and Certificate ..... | 35     |
| Requirements .....                   | 40     |
| Units .....                          | 41     |
| Advanced Standing .....              | 35     |
| Advisers .....                       | 32     |
| Alumni Association .....             | 21     |
| Ancient Languages, Courses in—       |        |
| Greek .....                          | 64     |
| Latin .....                          | 65     |
| Athletics .....                      | 21     |
| Attendance .....                     | 28-29  |
| Bachelor's Degrees .....             | 49     |
| Bachelor of Arts Course—             |        |
| Outline of .....                     | 58     |
| Subject Requirements in .....        | 54     |
| Bachelor of Science Course—          |        |
| Outline of .....                     | 59     |
| Subject Requirements in .....        | 55     |
| Bachelor of Philosophy Course—       |        |
| Outline of .....                     | 60     |
| Subject Requirements in .....        | 55     |
| Bequests .....                       | 15     |
| Biology, Courses in.....             | 66     |
| Botany, Courses in .....             | 66     |
| Buildings .....                      | 12     |
| Calendar .....                       | 2      |
| Certificate, Admission on.....       | 34     |
| Chemistry, Courses in .....          | 67, 69 |
| Classification of Students .....     | 32     |
| Combined Courses .....               | 50, 51 |
| Committees of Faculty .....          | 5      |
| Conditions—                          |        |
| At Entrance .....                    | 34     |
| Incurred .....                       | 31     |
| Courses of Study—                    |        |
| Outline of .....                     | 58, 60 |
| Description of .....                 | 62, 89 |

|                                         |        |
|-----------------------------------------|--------|
| Credentials .....                       | 38     |
| Credit Points .....                     | 56     |
| Curriculum, Aim of College.....         | 63     |
| Deficiencies at Entrance .....          | 34     |
| Degrees, Requirements for.....          | 49, 58 |
| Degrees Conferred in 1921 .....         | 90     |
| Departments and Courses .....           | 63, 89 |
| Discipline .....                        | 29, 30 |
| Economics, Courses in .....             | 69     |
| Education, Courses in .....             | 70, 71 |
| Jesuit System of .....                  | 8, 11  |
| Elective Studies .....                  | 57     |
| Eligibility Rules .....                 | 17     |
| English, Courses in .....               | 71, 73 |
| Entrance—                               |        |
| Certificates .....                      | 34     |
| Requirements .....                      | 40     |
| Electives .....                         | 41     |
| Procedure .....                         | 38     |
| Subjects accepted for .....             | 40, 42 |
| Ethics, Courses in .....                | 83     |
| Evidences of Religion, Courses in ..... | 73, 74 |
| Examinations—                           |        |
| Conditioned .....                       | 31     |
| Entrance .....                          | 30     |
| Semester .....                          | 30     |
| Supplementary .....                     | 31     |
| Expenses .....                          | 23     |
| Faculty .....                           | 4, 5   |
| French, Courses in .....                | 78, 79 |
| Geology, Courses in .....               | 74     |
| Geometry, Courses in .....              | 77     |
| German, Courses in .....                | 79, 81 |
| General Information .....               | 6      |
| Grades, System of .....                 | 55     |
| Graduation, Requirements for—           |        |
| Amount of Work .....                    | 53, 54 |
| Character of Work .....                 | 54, 55 |
| Quality of Work .....                   | 55     |
| Group Requirements .....                | 56     |
| Electives .....                         | 57     |
| Credit Points .....                     | 56     |
| Greek, Courses in .....                 | 64     |

|                                         |        |
|-----------------------------------------|--------|
| Grounds and Buildings .....             | 11, 13 |
| Group Requirements .....                | 56     |
| Gymnasium .....                         | 12     |
| Historical Sketch .....                 | 6, 8   |
| History, Courses in .....               | 75, 76 |
| History of Philosophy, Courses in ..... | 83     |
| Honors and Prizes .....                 | 26, 27 |
| Incomplete Work .....                   | 55     |
| Laboratories—                           |        |
| Astronomy .....                         | 13     |
| Botany .....                            | 13     |
| Chemistry .....                         | 13     |
| Physics .....                           | 14     |
| Zoology .....                           | 14     |
| Latin, Courses in .....                 | 65, 66 |
| Location .....                          | 6      |
| Majors .....                            | 57     |
| Marks, System of Grading .....          | 55     |
| Master's Degrees .....                  | 51, 53 |
| Mathematics—                            |        |
| Courses in .....                        | 76, 78 |
| For Entrance .....                      | 46     |
| Matriculation and Registration .....    | 39     |
| Minors .....                            | 57     |
| Methods of Admission .....              | 34, 35 |
| Modern Languages, Courses in—           |        |
| French .....                            | 78, 79 |
| German .....                            | 79, 81 |
| Spanish .....                           | 81, 82 |
| Moral and Religious Training .....      | 11     |
| Philosophy, Courses in .....            | 82, 84 |
| Physics, Courses in .....               | 84, 85 |
| Political Science, Courses in .....     | 85, 86 |
| Pre-medical, Required Courses in .....  | 61, 63 |
| Prescribed Courses .....                | 54, 55 |
| Prizes, Honors and .....                | 26, 27 |
| Psychology, Courses in .....            | 82     |
| Public Speaking, Courses in .....       | 86, 87 |
| Register of Students .....              | 90, 91 |
| Registration .....                      | 39, 40 |
| Reports .....                           | 32     |

## Requirements—

For Admission .....40, 42

For Graduation .....53, 58

For Holding Scholarships ..... 26

Research ..... 58

Schedule of Studies .....58, 60

Scholarships .....24, 26

## Science—

For Entrance ..... 47

For B. S. Degree ..... 55

Scope of Preparatory Subjects .....42, 48

Self-support, Opportunities for ..... 24

Social Activities ..... 16

Sociology, Courses in ..... 87

Spanish, Courses in .....81, 82

Special Students .....37, 38

Surveying, Course in..... 77

Student Advisers ..... 32

Student Organizations .....16, 22

System of Education .....8, 11

Terms and Vacations ..... 28

Testimonials and Credentials ..... 33

Transcripts of Records ..... 32

Trustees, Board of ..... 4

Unclassified Students ..... 37

University Publications ..... 22

Zoology, Courses in .....88, 89

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